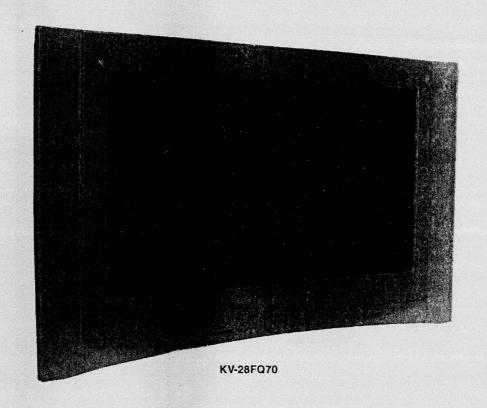


# **SERVICE MANUAL**

AE-6B CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-28FQ70B	RM-938	FR	SCC-Q83P-A	KV-28FQ70U	RM-938	UK	SCC-Q84Q-A
KV-28FQ70E	RM-938	ESP	SCC-Q81R-A				

# **FD** Trinitron





RM-938

TRINITRON ® COLOR TV
SONY®

#### TABLE OF CONTENTS Page Title Page Section Title Section 5. DIAGRAMS 3 Caution ...... 4 Specifications ..... 25 Block Diagrams (1) 6 5-1. Connectors ..... 26 Block Diagrams (2) ...... Self Diagnostic Software ..... 2.7 Block Diagrams (3) ..... 28 Block Diagrams (4) ...... 1. GENERAL Circuit Board Location 28 5-2. Switching On the TV and 5-3. Schematic Diagrams and **Automatically Tuning** ...... Printed Wiring Boards ..... 28 Introducing and Using the Menu 29 \* A Board Schematic ..... System 35 Q \* A Board PWB ..... Menu Guide 39 \*FI Board Schematic 10 ..... Teletext ..... 40 \*F1 Board PWB 10 Fastext \* H1 Board Schematic 39 ..... Remote Control Configuration 40 \* III Board PWB 11 for VCR/DVD 39 \* VM Board Schematic ..... 11 Specifications ..... 40 \* VM Board PWB ..... 12 Troubleshooting ..... 41 \* G Board Schematic ...... 40 \* G Board PWB ...... 2. DISASSEMBLY 42 \* C Board Schematic ..... \*C Board PWB 43 ...... 13 Rear Cover Removal 2-1. 44 \* M2 Board Schematic Speaker Connector Disconnection ..... 13 2-2. 43 \* M2 Board PWB ..... 13 2-3. Chassis Removal and Refitting ..... 45 \* D2 Board Schematic 14 ..... 2-4. Service Position ..... 43 \* D2 Board PWB ..... G Board Removal 2-5. ..... \* D Board Schematic 47 ..... 14 2-6. D2 Board Removal \* D Board PWB 46 ..... D Board Removal 14 2-7. ..... 15 2-8. M2 Board Removal 48 Semiconductors 5-4. ...... 15 Service Connector for M2 Board..... 2-9. IC Blocks 5-5. 15 2-10. Wire Dressing ...... 16 Picture Tube Removal 2-11. 6. EXPLODED VIEWS 17 **Rottom Plates** ..... 53 ..... 6-1. Chassis 3. SET-UP ADJUSTMENTS Picture Tube ...... 6-2.18 3-1 Beam Landing ...... 7. ELECTRICAL PARTS LIST ...... 19 3-2. Convergence ..... 21 Focus Adjustment 3-3. 21 Screen (G2), White Balance 3-4. 4. CIRCUIT ADJUSTMENTS **ATTENTION** 22 4-1. **Electrical Adjustments** 24 Test Mode 2 ..... 4-2. APRES AVOIR DECONNECTE LE CAP DE'LANODE,

#### CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

#### WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

# SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED A. ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

APRES AVOIR DECONNECTE LE CAP DE'LANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

#### ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

#### ATTENTION AUX COMPOSANTS RELATIFS Á LA SECURITÈ!!

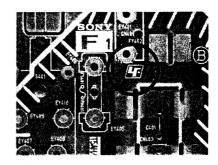
LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE & SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

# CAUTION

#### **Lead Free Soldered Boards**

The circuit boards listed below [Table 1] used in these models may have been processed using Lead Free Solder. The boards are identified by the LF logo located close to the board designation e.g. F1, H1 etc [ see examples ]. The servicing of these boards requires special precautions to be taken as outlined below.

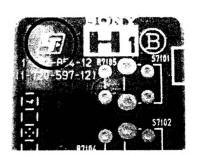
#### example 1



example 2



Board	Function
С	R,G,B Out
F1	Power Switch/Fuse/SIRCS/Standby LED
111	Front AV Input/Headphone and Control Switches



It is strongly recommended to use Lead Free Solder material in order to guarantee optimal quality of new solder joints. Lead Free Solder is available under the following part numbers:

Partnumber	Diameter	Remarks
7-640-005-19	0.3mm	0.25Kg
7-640-005-20	0.4mm	0.50Kg
7-640-005-21	0.5mm	0.50Kg
7-640-005-22	0.6mm	0.25Kg
7-640-005-23	0.8mm	1.00Kg
7-640-005-24	1.0mm	1.00Kg
7-640-005-25	1.2mm	1.00Kg
7-640-005-26	1.6mm	1.00Kg

Due to the higher melting point of Lead Free Solder the soldering iron tip temperature needs to be set to 370 degrees centigrade. This requires soldering equipment capable of accurate temperature control coupled with a good heat recovery characteristics.

For more information on the use of Lead Free Solder, please refer to http://www.sony-training.com

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
В	B/G/H, D/K, I, L	GERMAN/NICAM Stereo	VHF: E2-E12, R1-R12, S01-S03, F02-F10, B-Q UHF: E21-E69, F21-F69, B21-B69, R21-R69 CABLE TV: S01-S20 HYPER: S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Ε	B/G/H, D/K	GERMAN/NICAM Stereo	VHF: E2-E12, R1-R12, S01-S03 UHF: E21-E69, R21-R69 CABLE TV: S01-S20 HYPER: S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
U	ı	NICAM Stereo	UHF : B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

	Flat Display FD Trinitron	Sound output			
Picture Tube	Approx 82 cm (28 inches) (Approx 76 cm picture measured diagonally)	Right and Left speaker Sub Woofer	2x20W (Music Power) 2x10W (RMS) 1x30W (Music Power) 1x15W (RMS)		
nput/Output Terminals [	REAR]	General Specifications			
1: 21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio	Power Requirements	220 - 240V		
(OLIVELLO Staridard)	signals.	Sub Woofer  General Specifications  Power Requirements  Power Consumption  S. Dimensions  Weight  S. Supplied Accessories  Other Features	125W		
Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals. (Monitor Out)		The state of the s	Approx 789 x 533 x 521mm		
	(Mormor Suly	Weight	Approx 46.5kg		
3; 21-pin Euro connector	Inputs for Audio and Video signals. Inputs for S Video. Outputs of TV Video and Audio signals. (selectable)	Supplied Accessories	RM-938 Remote Commander (1) IEC designated R6 battery (2)		
Phono Jacks	Output Connectors variable for Audio Signals	Other Features	100 Hz picture, DNR, Auto Noise Reduction, Teletext, Smartlink, BBE, Virtual Dolby		
Input/Output Terminals	[SIDE]	Remote Control System : Infrared Control			
Headphone jack	stereo mini jack		3V dc 2 batteries IEC designation		
Audio inputs	phono jacks	Power requirements			
Video inputs phono jacks		1	R6 (size AA)		
S Video input	4 pin DIN				

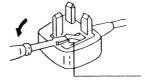
Model Name Item	KV-28FQ70B	KV-28FQ70E	KV-28FQ70U
Pal Comb	OFF	OFF	OFF
PIP	OFF	OFF	OFF
RGB Priority	ON	ON	ON
Woofer Box	ON	ON	ON
Scart 1	ON	ON	ON
Scart 2	ON	ON	ON
Scart 3	ON	ON	ON
Side in (4)	ON	ON	ON
Projector	OFF	OFF	OFF
Norm B/G	ON	ON	OFF
Norm I	ON	OFF	ON
Norm D/K	ON	ON	OFF
Norm AUS	OFF	OFF	OFF
Norm L	ON	OFF	OFF
Norm SAT	OFF	OFF	OFF
Norm M	OFF	OFF	OFF
Teletext	ON	ON	ON
Nicam Stereo	ON	ON	ON

# **WARNING (UK Models only)**

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** rating. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by ASTA to **BS 1362**, ic one that carries the \*\* mark.

IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET.

When an alternative type of plug is used, it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.



How to replace the fuse. Open the fuse compartment with a screwdriver blade and replace the fuse.

FUSE

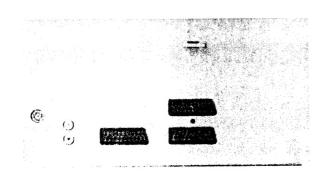
21 19 17 15 13 11 9 7 7	20 18 16 14 12 10 8 6
11.11	6
	1
3	ci la
1	2

Pin No	1	2	3	Signal	Signal level
1	0	0	0	Audio output B (right)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
2	0	0	0	Audio input B (right)	Standard level : 0.5V rms Output impedence : More than 10kohm*
3	0	0	0	Audio output A (left)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
4	0	0	0	Ground (audio)	
5	0	0	0	Ground (blue)	
6	0	0	0	Audio input A (left)	Standard level : 0.5V rms Output impedence : More than 10kohm*
7	0	•	•	Blue input	0.7 +/- 3dB, 75 ohms positive
8	0	0	0	Function select (AV control)	High state (9.5-12V): Part mode Low state (0-2V): TV mode Input impedence: More than 10K ohms Input capacitance: Less than 2nF
9	0	0	0	Ground (green)	
10	0	0	0	Open	
11	0	•	•	Green	Green signal: 0.7 +/- 3dB, 75 ohms, positive
12	0	0	0	Open	
13	0	0	0	Ground (red)	
14	0	0	0	Ground (blanking)	
	0	-	-	Red input	0.7 +/- 3dB, 75 ohms, positive
15	-	0	0	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	0	•	•	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedence : 75 ohms
17	0	0	0	Ground (video output)	
18	0	0	0	Ground (video input)	
19	0	0	0	Video output,	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
	0	-	-	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	-	0	0	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	0	0	0	Common ground (plug, shield)	

O Connected

Not Connected (open) \* at 20Hz - 20kHz

# **Rear Connection Panel**



# Front Connection Panel



S-Video socket

	S Video socket pin configuration						
Pin No	Signal	Signal Level					
1	Ground	-					
2	Ground	-					
3	Y (S signal) input	1V+/- 3dB 75ohm, positive Sync. 0.3V -3 +10dB					
4	C (S signal) input	0.3V+/- 3dB 75ohm, positive Sync.					

# **AE-6B SELF DIAGNOSTIC SOFTWARE**

The identification of errors within the AE-6B chassis is triggered in one of two ways:-1: Busy or 2: Device failure to respond to HC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1, non fatal errors are reported using this method.

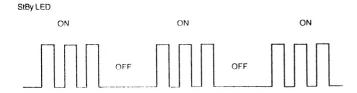
1.

Each time the software detects an error it is stored within the NVM. See Table 2.

Table 1

Error Message	LED Code
No error	00
Reserved	01
OCP ( Over Current Protection )	02
Over Voltage Protection	03
No Vertical Sync	04
IKR Error at power on	05
IIC bus clock and/or data lines low at power on	06
NVM no IIC bus acknowledge at power on	07
Horizontal Protection	08
Tuner no acknowledge at power on	09
Sound Processor Error	10
Reserved	11
Scanrate Error	12
DAC Error	13
Backend Error	14
Dynamic Convergence Error	15
PIP Error	16

#### Flash Timing Example: e.g. error number 3



#### How to enter into Table 2

- Turn on the main power switch of the TV set.
- Program Remote Commander for Operation in Service Mode. [See Page 22].
- 3. Press 'VIDEO' 'VIDEO' > 'MENU' on the Remote Commander.
- Using the Remote Commander, Scroll to the 'Error Menu' item using the down arrow key, then press the right arrow key.
- The following table will be displayed indicating the error count.

Table 2

ERROR MENU			
E02	OCP	(0, 255)	0
E03	OVP	(0, 255)	0
E04	VSYNC	(0, 255)	0
E05	IKR	(0, 255)	0
E06	IIC	(0, 255)	0
E07	NVM	(0, 255)	0
E08	HPROT	(0, 255)	0
E09	TUNER	(0, 255)	0
E10	SOUNDP	(0, 255)	0
E11	-	(0, 255)	0
E12	SCANRATE	(0, 255)	0
E13	DAC	(0, 255)	0
E14	BACKEND	(0, 255)	0
E15	DYN CON	(0, 255)	0
E16	PIP	(0, 255)	0
WORKING TIME			
HOURS			14
MINUTES			7
L			

Note: To clear the error count data press '80' on the Remote commander.

The operating instructions mentioned here are partial abstracts from the 'Operating Instruction Manual'. The page numbers of the Operating Instruction Manual' remain as in the manual.

# Switching On the TV and Automatically Tuning

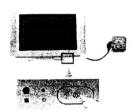
The first time you switch on your TV, a sequence of menu screens appear on the TV enabling you to: 1) choose the language of the menu screen, 2) adjust the picture slant, 3) search and store all available channels (TV Broadcast) and 4) change the order in which the channels (TV Broadcast) appear on the screen.

However, if you need to change any of these settings at a later date, you can do that by selecting the appropriate option in the 🖨 (Set Up menu) or by pressing the Auto Start Up Button Don the TV set.

1 Connect the TV plug to the mains socket (220-240V AC,

The first time that the TV set is connected, it is usually turned on. If the TV is off, press the **O** on/off button on the TV set to turn on the TV.

The first time you switch on the TV, a Language menu displays automatically on the TV screen.



**2** Press the  $\clubsuit$  or  $\spadesuit$  button on the remote control to select the language, then press the OK button to confirm your selection. From now on all the menus will appear in the selected language.





GB 8

3 Because of the earth's magnetism, the picture might slant. The Picture Rotation menu allows you to correct the picture slant if it is necessary.

- a) If it is not necessary, press OK to select Not necessary.
- b) If it is necessary, press lacktriangle or lacktriangle to select Adjust now, then press OK and correct any slant of the picture between -5 and +5 by pressing ◆ or ◆ . Finally press OK to store.





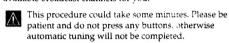
continued...

4 The Auto Tuning menu appears on the screen. Press the OK button to select Yes.



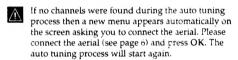


5 The TV starts to automatically search and store all available broadcast channels for you.





In some countries the TV Broadcaster installs the channels automatically (ACI system). In this case, the TV Broadcaster sends a menu in which you can select your city by pressing the  $\bullet$  or  $\bullet$  button and OK to store the channels.







- After all available channels are captured and stored, the Programme Sorting menu automatically appears on the screen enabling you to change the order in which the channels appear on the screen.
- a) If you wish to keep the broadcast channels in the tuned order, go to step 7.
- **b)** If you wish to store the channels in a different order:
  - 1 Press the  $\bullet$  or  $\bullet$  button to select the programme number with the channel (TV Broadcast) you wish to rearrange, then press the button.
  - 2 Press the  $\bullet$  or  $\bullet$  button to select the new programme number position for your selected channel (TV Broadcast), then press OK.
  - 3 Repeat steps b)1 and b)2 if you wish to change the order of the other channels.









7 Press the MENU button to remove the menu from the screen.





Level 1

Level 2

#### Level 3 / Function

#### MANUAL PROGRAMME PRESET

The "Manual Programme Preset" option in the "Set Up" menu allows you to:

- a) Preset channels or the VCR channel one by one to the programme order of your choice. To do this:
- After selecting the "Manual Programme Preset" option, press - then with Programme option highlighted press -Press • or • to select which programme number you want to preset the channel on (for VCR, select programme number "0"). Then press .
- **2** After selecting the **Channel** option, press **.** Then press the number buttons to enter directly the channel number of the TV Broadcast or the channel of the VCR signal. If you do not know the channel number, press lacktriangle or lacktriangle to search for it. When you have tuned the desired channel, press OK twice to store.

Repeat all the above steps to tune and store more channels.

b) Label a channel using up to five characters.

To do this: Highlighting the Programme option, press the PROG +/- button to select the programme number with the channel you wish to name. When the programme you want to name appears on the screen, select the Label option and press . Next press • or • to select a letter, number or "-" for a blank. Press to confirm this character. Select the other four characters in the same way. After selecting all the characters, press OK twice to store.

c) Fine tune the broadcast reception. Normally the automatic fine tuning (AFT) will give the best possible picture, however you can manually fine tune the TV to obtain a better picture reception in case the picture is distorted.

To do this: while watching the channel (TV Broadcast) you wish to fine tune, select the AFT option and press ♦. Next press ♦ or ♠ to adjust the fine tuning between -15 and +15. Finally press OK twice to store.

d) Skip any unwanted programme numbers when they are selected with the PROG +/buttons.

To do this: Highlighting the Programme option, press the PROG +/- button to select the programme number you want to skip. When the programme you want to skip appears on the screen, select the Skip option and press . Next press • or • to select Yes. Finally press OK twice to confirm and store.

To cancel this function afterwards, select "No" instead of "Yes" in the step above.

continued...

GB 7

#### Teletext



Teletext is an information service transmitted by most TV stations. The index page of the teletext service (usually page 100) gives you information on how to use the service. To operate teletext, use the remote control buttons as indicated below.



Teletext errors may occur if you use a channel (TV Broadcast) with a weak signal.

#### To switch on Teletext:

After selecting the TV channel which carries the teletext service you wish to view, press 🗐



#### To select a Teletext page:

Input 3 digits for the page number, using the numbered buttons.

- If you make a mistake, retype the correct page number.
- If the counter on the screen continues searching, it is because the page is not available. If this is the case, input another page number

#### To access the next or preceding page:

Press PROG + ( ) or PROG - ( ).

#### To superimpose teletext on to the TV:

Whilst you are viewing teletext, press (a). Press it again to cancel teletext mode.

#### To freeze a teletext page:

Press • Press it again to cancel the freeze.

#### To reveal concealed information (e.g. answer to a guiz):

Press (H)/(2). Press it again to conceal the information.

#### To select a sub page:

A teletext page may consist of several sub pages. In this case the page number that appears on the upper left corner will change from white to green and one or more arrows will appear next to the page number. Repeatedly press the  $\blacklozenge$  or  $\blacklozenge$  buttons on the remote control to watch the desired sub page.

#### To Switch Off Teletext: .

Press 🔘 .

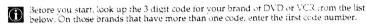
#### Fastext

Fastext service lets you access Teletext pages with one button push.

When you are in Teletext mode and Fastext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press the appropriate coloured button (red, green, yellow or blue) to access the page corresponding to your menu choice.

GB:

In it's default condition this remote control will operate the basic functions of this Sony TV, Sony DVDs and most Sony VCRs. To control VCRs and DVDs of other manufacturers (and some Sony VCR models), please complete the following steps:



1 Press the Media Selector button on the remote control repeatedly until the required green light (VCR or DVD) is lit.

If Media Selector is on TV position, code numbers will not be stored.

2 Before the green light goes out, press and hold the yellow button for approximately 6 seconds until the green light starts flashing.

Whilst the green light is flashing, enter all three digits of the code for your brand of VCR or DVD using the number buttons on the remote control.

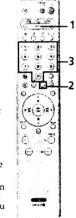
If your selected code is entered correctly, all three green lights will be lit momentarily.

4 Turn on your VCR or DVD and check that the main functions work.



- If your device is not working or some of the functions do not work please check that you entered the correct code set or try the next code listed against the brand.
- Your brand codes may be lost if weak batteries are not replaced within a few minutes. To reset your brand of DVD or VCR please repeat the above steps. A small label is added inside the battery door to allow you to record your brand codes.
- · Not all brands are covered and not all models of every brand may be covered.

**DVD Brand List** 



#### **VCR Brand List**

	2.51		
Brand	Code	Brand	Code
SONY (VHS)	301, 302, 303, 308, 309	SONY	001
SONY (BETA)	303, 307, 310	AIWA	021
SONY (DV)	304, 305, 306	DENON	018, 027, 020, 002
AIWA	325, 331, 351	GRUNDIG	009, 028, 023, 024, 016, 003
AKAI	326, 329, 330	HITACHI	025, 02e. 015, 004
DAEWOO	342, 343	IVC	006, 017
GRUNDIG	358, 355, 360, 361, 320, 351	KENWOOD	008
HITACHI	327, 333, 334	LG	015, 014
IVC	314, 315, 322, 344, 352, 353,	LOEWE	009, 028, 023, 024, 016, 003
	354, 348, 349	MATSUI	013, 016
LG	332, 338	ONKYO	022
LOEWE	358, 355, 360, 361, 320, 351	PANASONIC	018, 027, 020, 002
MATSUL	356, 357	PHILIPS	009, 028, 023, 024, 016, 003
ORION	328	PIONEER	004
PANASONIC	321, 323	SAMSUNG	011, 014
PHILIPS	311, 312, 313, 316, 317, 318,	SANYO	007
	358, 359	SHARP	019, 027
SAMSUNG	339, 340, 341, 345	THOMSON	012
SANYO	335, 336	TOSHIBA	003
SHARP	324	YAMAHA	018, 027, 020, 002
THOMSON	319, 350		
TOSHIBA	337		

# **Specifications**

#### TV system:

#### Colour system:

SECAM, NTSC 3.58, 4.43 (only Video In)

#### Channel Coverage:

I: UHF B21-B69

#### Picture Tube:

Flat Display FD Trinitron WIDE:

- KV-28FQ70U: 28" (approx. 71 cm mesaured diagonally)
- KV-32FQ70U: 32" (approx. 82 cm mesaured diagonally).

#### **Rear Terminals**

**○1**/**○1** 21-pin scart connector

(CENELEC standard) including audio/video input, RGB input, TV audio/video output.

**3** 21-pin Scart **2** 21-pin Scart connector

(CENELEC standard) including audio / video input, RGB input, monitor audio/video output.

3 21-pin Scart € 3 21-pin Scart (SMARTLINK) connector (CENELEC

standard) including audio / video input, S video input, selectable audio / video output and Smartlink interface.

G- audio outputs (Left/ Right) - phono jacks

#### Front Terminals

€ 4 S Video input - 4 pin

€ 4 video input – phono

audio input - phono

headphones jack

#### Sound Output:

2 x 20 W music power) 2 x 10 W RMS)

#### Woofer:

30 W (music power) 15 W (RMS)

#### **Power Consumption:**

- KV-28FQ70U: 125 W
- KV-32FO70U: 130 W

#### Standby Power Consumption:

0.3 W

#### Dimensions (w x h x d):

- KV-28FQ70U: approx. 789 x 533 x 521 mm.
- KV-32FQ70U: approx. 910 x 586 x 586 mm.

#### Weight:

- KV-28FO70U: approx. 46.5 Kg.
- KV-32FO70U: approx. 64 Kg.

#### Accessories supplied:

1 Remote Control (RM-938) 2 Batteries (IEC designated, AA size)

#### Other features:

- 100 Hz picture, Digital Plus.
- Teletext, Fastext, TOPtext (250 page TEXT memory).
- · Sleep Timer.
- SmartLink (direct link) between your TV set and a compatible VCR. For more information on SmartLink. please refer to the Instruction Manual of your VCR).
- Dolby Virtual.
- BBE Digital.
- · PIP.
- · Auto Format.
- · ACI (Auto Channel Installation).

GB :

Design and specifications are subject to change without notice.

Ecological Paper - Totally Chlorine Free 🏖

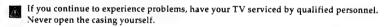
# Troubleshooting

Here are some simple solutions to problems which may affect the picture and sound.

Solution
<ul> <li>Check the aerial connection.</li> <li>Plug the TV in and press the ℚ button on the front of the TV.</li> <li>If the standby indicator ℚ is on, press TV I/ℚ button on the remote control.</li> </ul>
• Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to the factory settings (see page 9).
<ul> <li>Check that the optional equipment is on and press the         button repeatedly on the remote control until the         correct input symbol is displayed on the screen (see page 21).     </li> </ul>
<ul> <li>Press the  + button on the remote control.</li> <li>Check that "TV Speakers" is "On" in the "Sound Adjustment" menu (see page 10).</li> <li>Check that headphones are not connected.</li> </ul>
• Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to factory settings (see page 9).
This is not a malfunction. Press the number buttons on the remote control to select the desired channel.
Turn off any equipment connected to the Scart connector on the rear of the TV.
Use the menu system to enter the "Language" menu (see page 13) and select the same language that NexTView is broadcast in.

continued...

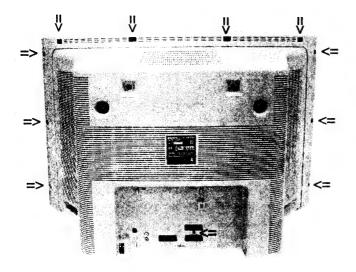
Problem	Solution
Picture slanted	• Using the menu system, select the "Picture Rotation" option in the "Detail Set Up" menu to correct the picture slant (see page 16).
Noisy picture when viewing a TV channel.	Using the menu system, select the "Manual Programme Preset" menu and adjust Fine Tuning (AFT) to obtain better picture reception (see page 15). Using the menu system, select the "Noise Reduction" option in the "Picture Adjustment" menu and select "Auto" to reduce the noise in the picture (see page 19).
Remote control does not function.	Check that the Media Selector on the remote control is set to the device you are using (VCR, TV or DVD).     If the remote control does not operate the VCR or DVD even when the Media Selector has been set correctly. Enter the necessary code set as explained in the "Remote Control Configuration for VCR/DVD" chapter of this instruction manual (see page 22).     Replace the batteries.
The standby indicator <b>o</b> on the TV flashes.	Contact your nearest Sony service centre.





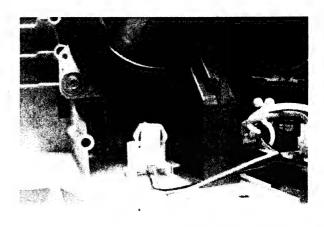
# **SECTION 2 DISASSEMBLY**

#### 2-1. Rear Cover Removal



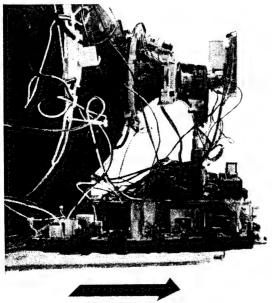
Remove the rear cover fixing screws indicated and pull the rear cover backwards away from the set.

#### 2-2. Speaker Connector Disconnection

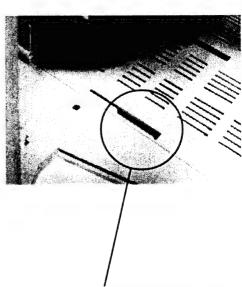


Before completely removing the rear cover disconnect the speaker connector which is located on the inside of the set.

# 2-3. Chassis Removal and Refitting

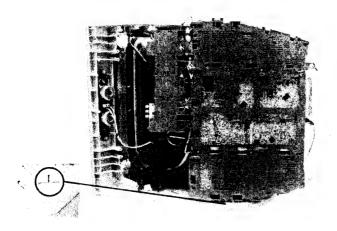


To remove lift the main bracket rear slightly and slide the chassis away from the beznet. Ensure that the interconnecting leads are released from their purse locks to prevent damage being caused.



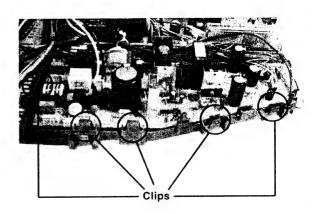
When refitting the chassis ensure that the main bracket is located in the beznet guide slots before sliding the chassis forwards. Refit the inter-connecting leads in their respective purse locks.

#### 2-4. Service Position



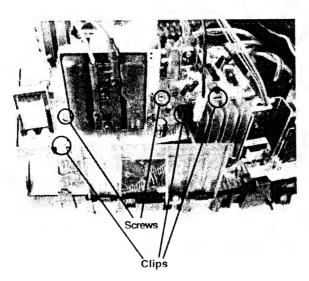
To place the chassis in the service position, insert the main bracket firmly into the T-slot located on the left corner of the beznet as indicated (see inset). To gain access to the underside of the boards follow the instructions on page 17. [Removal and Replacement of the main bracket bottom plates].

#### 2-5. G Board Removal



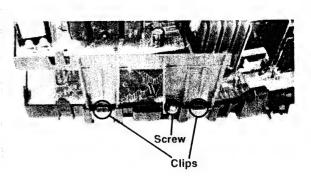
To remove the G Board release the clips circled and ease the board gently away from the support bracket.

# 2-6. D2 Board Removal



To remove the D2 board remove the two screws circled, release the clips circled and ease the board gently away from the support bracket.

#### 2-7. D Board Removal



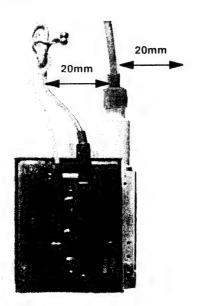
To remove the D board first remove the D2 bracket by removing the two screws (one on each side of the bracket) and releasing the four clips (two on each side of the bracket). The D board can then be removed using the same method as the G board.

#### 2-8. M2 Board Removal



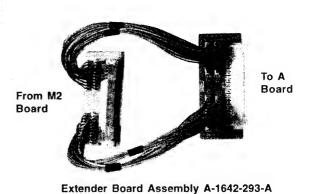
To remove the M2 Board gently release the two clips with a screwdriver and remove the board from its socket vertically.

#### 2-10. Wire Dressing



Ensure that wires do not touch heatsinks and high temperature hotspots. All wires must be kept at a minimum distance of 20mm away from the EHT lead

### 2-9. Service Connector for M2 Board

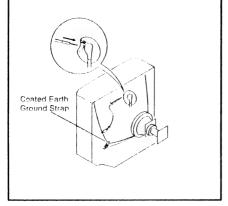


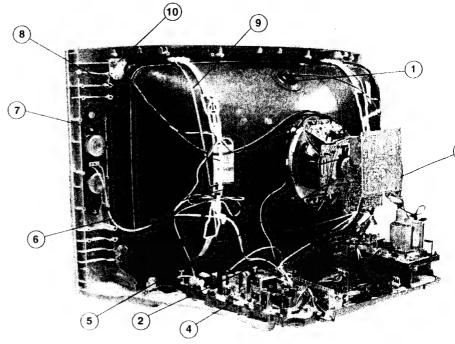
If the M2 Board needs to be removed for testing when the chassis is placed in its service position, it would be necessary to use an extender board and extension cable as indicated above.

The Extender board and extension cable are available as a service part by ordering the part number as indicated.

## WARNING: BEFORE REMOVING THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT *before* attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.

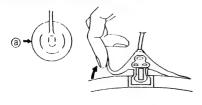




- 1. Discharge the anode of the CRT and remove the anode cap.
- Unplug all interconnecting leads from the Deflection yoke, neck assy, degaussing coils and CRT grounding strap.
- 3. Remove the C Board from the CRT.
- 4. Remove the chassis assembly.
- 5. Loosen the Neck assembly fixing screw and remove.
- 6. Loosen the Deflection yoke fixing screw and remove.
- Place the set with the CRT face down on a cushion and remove the Degaussing Coil holders.
- 8. Remove the Degaussing Coils.
- 9. Remove the CRT grounding strap and spring tensioners.
- Unscrew the four CRT fixing screws [ located on each CRT corner ] and remove the CRT.
   [Take care not to handle the CRT by the neck.]

# Removal of the Anode-Cap

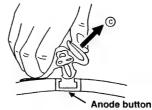
#### REMOVAL PROCEDURE.



1 Turn up one side of the rubber cap in the direction indicated by the arrow (a)



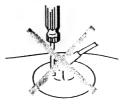
2) Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b)

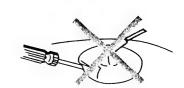


When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ©

## How to handle the Anode-Cap

- To prevent damaging the surface of the anode-cap do not use sharp materials.
- Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
- A metal fitting called a shatter hook terminal is fitted inside the rubber cap.
- Do not turn the rubber foot over excessively, this may cause damage if the shatter hook sticks out.



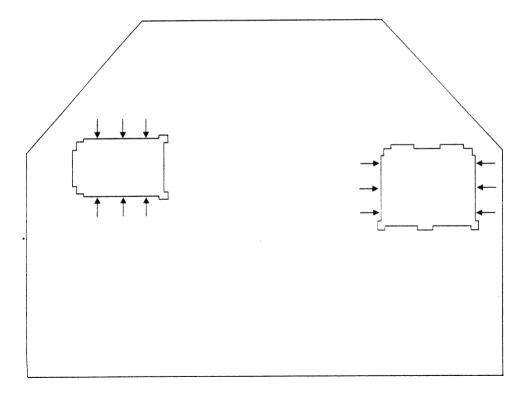


# REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

# (1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the printed wiring boards, the bottom plates fitted to the main chassis bracket require to be removed. This is performed by cutting the gates with a sharp wire cutter at the locations indicated by the arrows.

**Note:** There are 2 plates fitted to the main bracket. Only remove the necessary plate to gain access to the printed wiring board.





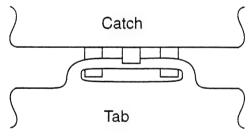
# For safety reasons, on no account should the plates be removed and not refitted after servicing.



#### (2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from their cut position to allow the tabs to be fitted into their catch positions.



# **SECTION 3 SET-UP ADJUSTMENTS**

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings:

Contrast	 normal
Brightness	 normal

# Carry out the adjustments in the following order:

- 3-1. Beam Landing.
- 3-2. Convergence.
- 3-3. Focus
- 3-4. White Balance.

Note: Test equipment required.

- 1. Color bar/pattern generator.
- 2. Degausser.
- Oscilloscope.
- 4. Digital multimeter.

## 3-1. Beam Landing

#### Preparation:

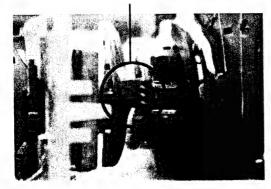
- 1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
- 2. Switch on the TV set's power and degauss with a degausser.

# (1) Adjustment of Correction Magnet for Y-Splitting Axis.

- 1. Input a crosshatch signal from the pattern generator.
- Set the Picture control to minimum and confirm that the Brightness control is set to normal.
- 3. Position the neck assembly as indicated in Fig.3-2.
- 4. Loosen the deflection yoke fixing screw.
- 5. Move the deflection yoke as far forward as is possible.
- 6. Adjust the upper and lower pin symmetrically by opening or closing the Y-splitting axis correction magnets located on the neck assembly. [See Fig 3-3]
- 7. Return the deflection yoke to its original position and re-tighten its fixing screw.

Fig.3-1

## Y-splitting axis correction magnet



#### Caution:

High voltages are present on the Deflection yoke terminals - take care when handling the Deflection yoke whilst carrying out adjustments.

#### (2) Landing

**Note:** Before carrying out the following adjustments adjust the magnets as indicated [See Fig. 3-4].

- 1. Input a crosshatch signal from the signal generator.
- Rough-adjust the focus and horizontal convergence.
- 3. Switch from the crosshatch pattern to an all-red pattern.
- Move the deflection yoke backwards and adjust with the purity magnet so that the red is at the centre and it aligns symmetrically [See Fig. 3-5].
- Move the deflection yoke forward to the point where the entire screen just becomes red [Mark its position].
- Move the deflection yoke further forward until the screen just changes colour at the edges. [Mark its position]
- Position the deflection yoke between the two marks indicated above
- 8. Input a crosshatch pattern from the pattern generator and rotate the deflection yoke so that the horizontal lines are parallel with the top and bottom of the screen.
- When the position of the deflection yoke has been determined, fasten it with its fixing screw.
- Switch the pattern generator to green then blue and confirm the purity.
- 11. If the beam does not land correctly in all the corners of the screen, use disk magnets to correct it. [Confirm the corner landing for green and blue]

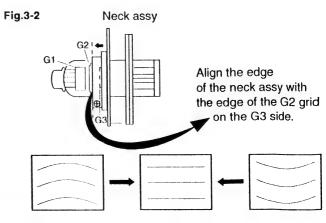
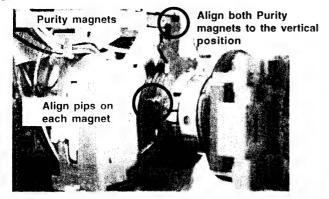


Fig.3-3

Fig.3-4



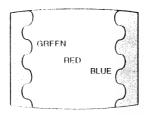
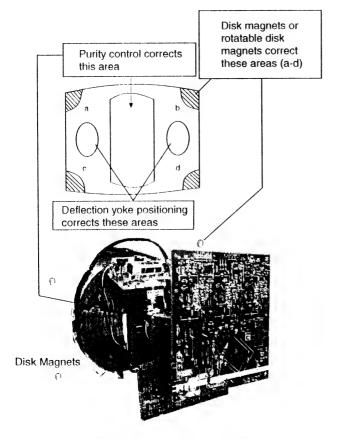
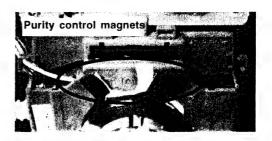


Fig.3-5

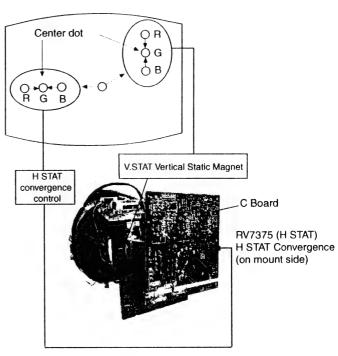




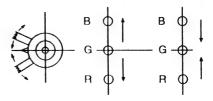
# 3-2. Convergence

#### (1) Screen centre convergence [Static convergence]

- 1. Input a dot pattern signal from the pattern generator.
- 2. Normalize the picture setting.
- [Moving vertically], adjust the V.STAT magnet so that the vertical red, green and blue dots coincide at the centre of the screen



By opening or closing the V.STAT magnet, the red green and blue dots move in the direction indicated below.



**Note:** Do not adjust the H.STAT by rotating the V.STAT magnets as this can affect the focus setting.

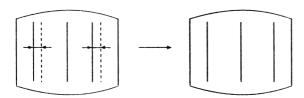
- 4. Correction for HMC [Horizontal mis-convergence] and VMC [Vertical mis-convergence] by using the BMC [Hexapole] magnet.
- a). HMC correction by BMC [Hexapole] magnet and movement of the electron beam.

HMC correction(A) HMC correction(B)

b). VMC correction by BMC [Hexapole] magnet and movement of the electron beam.

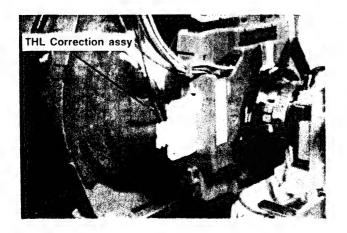
VMC correction(A) VMC correction(B)

# **HAMP Adjustment**

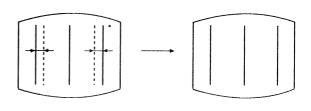


Adjust the HAMP using HAMPL and HAMPR registers in the Dynamic Convergence section of the service menu.

# **HTIL Adjustment**



HTIL correction can be performed by adding a THL correction assembly to the Deflection yoke.



#### **YCH Adjustment**



#### **TLV Adjustment**

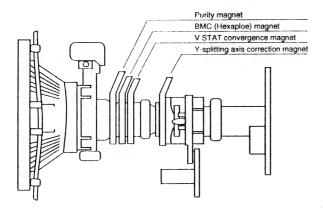


# **H-TRAP Adjustment**

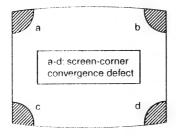


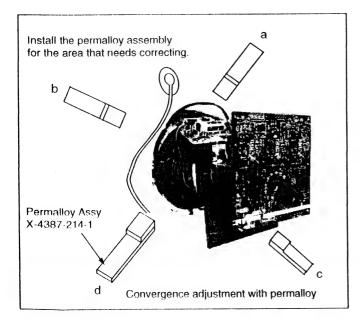
The H-TRAP should not be adjusted unless absolutely necessary as it affects the TLV settings.

#### Layout of each control



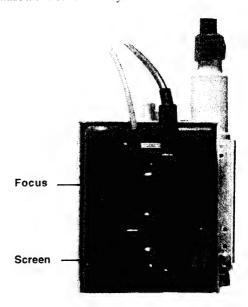
**Note:** If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloy magnets.





## 3-3. Focus Adjustment

- 1. Receive a television broadcast signal.
- 2. Normalize the picture setting.
- Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen.
   Bring only the centre area of the screen into focus, the magentaring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



# 3-4. Screen (G2), White Balance

[Adjustment in the service mode using the remote commander]

#### G2 adjustment

- 1. Input a dot signal from the pattern generator.
- 2. Set the Picture, Brightness and Colour to minimum.
- Apply 165V DC from an external power supply to the R. G and B cathodes of the CRT.
- 4. Whilst watching the picture, adjust the G2 control [SCREEN] located on the flyback transformer to the point just before the flyback return lines disappear.

#### White balance adjustment for TV mode

- 1. Input an all-white signal from the pattern generator.
- 2. Program the Remote Commander for operation in Service Mode. [See Page 22].
- Enter into the 'Service Mode' by pressing 'VIDEO' button twice and 'MENU' on the Service Commander.
- Select 'Service' from the on screen menu display and press 'Right Arrow'.
- 5. The 'Service' menu will appear on the screen.[See Page 23]
- 6. Set the 'Contrast' to MAX.
- 7. Set the 'R-Drive' to 50.
- Adjust the 'G-Drive' and the 'B-Drive' so that the white balance becomes optimum.
- 9. Press the 'OK' button to write the data for each item.
- 10. Set the 'Contrast' to MIN.
- 11. Set the 'R-Cutoff' to 29.
- 12. Adjust the 'G-Cutoff', and the 'B-Cutoff' with the left and right buttons on the remote commander so that the white balance becomes optimum.
- 13. Press the 'OK' button to write the data for each item.

# **SECTION 4 CIRCUIT ADJUSTMENTS**

# 4-1. Electrical Adjustments

Service adjustments to this model can be performed using the supplied remote Commander RM-938.

#### Programming the Remote Commander for Operation in Service Mode

- 1. Press the VCR/TV/DVD button until the TV LED lights.
- Press and hold the yellow button for approx. 5 seconds until the TV LED flashes quickly.



- Press 99999. All three LED's should light.
   The remote commander is now set to Service Mode.
- To return the remote commander to normal operation mode repeat steps 1, and 2, then press 00000. All three LED's should light.

The remote commander is now set to normal mode.

## Setting the TV into Service Mode

- Program the remote commander for operation in Service Mode as described above.
- Turn on the TV main power switch.
- 3. Press the video standby button on the remote commander twice.

'TT\_\_' will appear in the upper right corner of the screen. Other status information will also be displayed.

 Press 'MENU' on the remote commander to obtain the following menu on the screen.

Geometry
Panorama
Service
Scanrate
DAC
PiP
Sound
IF adjust
Error Menu

AE6B Wide v2.21 (Jan 2002)
Factory data 02h 16h
MSP Device : MSP3411G

- Move to the corresponding adjustment item using the up or down arrow buttons on the Remote Commander.
- 6. Press the right arrow button to enter into the required menu item.
- Press the 'Menu' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

#### Note

 After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then ON.

I	GEOMETRY				
	ABL TH ABL MODE P ABL V SIZE V POSITION V COMP V LIN S CORRECTION H SIZE PIN AMP UP CORNERPIN M PIN LO CORNERPIN TRAPEZIUM H POSITION AFC BOW AFC ANGLE LEFT BLK V ASPECT AKBTIM1 AKBTIM2 IKR HNG	(0, 3) (0, 3) (0, 15) (0, 63) (0, 63) (0, 15) (0, 63) (0, 63) (0, 63) (0, 63) (0, 15) (0, 63) (0, 15) (0, 63) (0, 15) (0, 63) (0, 63)	1 0	0 0 15 35 33 1 7 44 32 29 2 40 8 9 34 17 47 2 0	
1	VNG		0		

PANORAMA		
LICOMOTILLI	(0.7)	_
HORWIDTH H	(0, 7)	1
HORWIDTH L	(0, 255)	170
HORPOS H	(0, 7)	0
HORPOS L	(0, 255)	15
NAPPLIP H	(0, 7)	1
NAPPLIP L	(0, 127)	62
HSCPOSC H	(0, 15)	8
HSCPOSC L	(0, 255)	151
BLANDEL	(0, 255)	13
BLANLEN	(0, 255)	207
BLANPOL	(0, 1)	0
HSEG1 H	(0, 7)	0
HSEG1 L	(0, 255)	96
HSEG2 H	(0, 7)	0
HSEG2 L	(0, 255)	192
HSEG3 H	(0, 7)	0
HSEG3 L	(0, 255)	224
HSEG4 H	(0, 7)	1
HSEG4 L	(0, 255)	64
HINCO H	(0, 1)	0
HINCO L	(0, 255)	40
HINC1 H	(0, 1)	0
HINC1 L	(0, 255)	20
HINC2 H	(0, 1)	0
HINC2 L	(0, 255)	0
HINC3 H	(0, 1)	1
HINC3 L	(0, 255)	236
HINC4 H	(0, 1)	1
HINC4 L	(0, 255)	216

IF ADJUST	
Automute	1
Audio Gain	0
L Gating	0

SERVICE		
SUB COL SUB HUE SUB SHARP SUB BRIGHT SUB CONT R-DRIVE G-DRIVE B-DRIVE R CUTOFF G CUTOFF B CUTOFF Br TXT Br OSD	(0, 63) (0, 63) (0, 63) (0, 63) (0, 15) (0, 63) (0, 63) (0, 63) (0, 63) (0, 63) (0, 15) (0, 15)	Adj 31 30 13 12 50 Adj Adj 28 24 46 7

DAC			
CONFIG MPIN CONT HLIN HTRAP ROT. COIL PHOCUS PH	(0, 255) (0, 255) (0, 255) (0, 255) (0, 255)	00000000	96 83 127 130 90

	SOUND		
١	M-N	(0, 511)	200
١	M-D	(-128, -1)	-20
1	M-S	(+0, +127)	+20
١	S-M	(+0, +127)	+10
١	D-M	(-128, -1)	-10
1	N-M	(0, 1023)	496
١	BBE	(+0, +68)	+28
١	B1	(-96, +96)	+0
١	B2	(-96, +96)	+0
١	B3	(-96, +96)	+0
	B4	(-96, +96)	+0
١	B5	(-96, +96)	+0
١	SW L	(-128, +0)	+0
	SW F	(+5, +40)	+30
	NICAM C AD	10001	
	NICAM Error	(0, 2047)	0
	Stereo	(-128, +127)	+0
	1		
	Status	0000000110	

ERROR MENU			
E02	OCP	(0, 255)	0
E03	OVP	(0, 255)	0
E04	<b>VSYNC</b>	(0, 255)	0
E05	IKR	(0, 255)	0
E06	IIC	(0, 255)	0
E07	NVM	(0, 255)	0
E08	HPROT	(0, 255)	0
E09	TUNER	(0, 255)	0
E10	SOUNDP	(0, 255)	0
E11	-	(0, 255)	0
E12	SCANRATE	(0, 255)	0
E13	DAC	(0, 255)	0
E14	BACKEND	(0, 255)	0
E15	DYN CON	(0, 255)	0
E16	PIP	(0, 255)	0
WORKING TIME			
HOURS			14
MINUTES			7

# Sub Brightness Adjustment

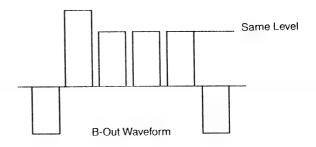
- 1. Input a Monoscope pattern.
- Program the Remote Commander for operation in Service Mode.
   See Page 22 ].
- 3. Press 'VIDEO' 'VIDEO' 13 on the Remote Commander.
- Adjust the 'Sub-Brightness' data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

#### **Sub Contrast Adjustment**

- Input a video signal that contains a small 100% white area on a black background.
- 2. Connect an digital voltmeter to Pin 10 of J7376 [C Board].
- 3. Program the Remote Commander for operation in Service Mode. [See Page 22].
- 4. Adjust the Sub-Contrast [ Using 'VIDEO' 'VIDEO' '11' ] to obtain a voltage of 105 +/- 5V.

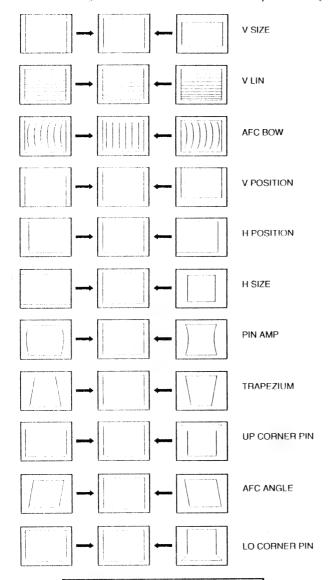
# **Sub Colour Adjustment**

- 1. Receive a PAL colour bar signal.
- 2. Connect an oscilloscope to Pin 6 of CN7001 [A Board].
- 3. Program the Remote Commander for operation in Service Mode. [See Page 22].
- 4. Adjust the 'Sub Colour' [ Using 'VIDEO' 'VIDEO' '12' ] so that the Cyan, Magenta and Blue colour bars are of equal levels as indicated below.



# **Deflection System Adjustment**

- 1. Program the Remote Commander for operation in Service Mode. [See Page 22] and enter into the 'Geometry' service menu.
- 2. Select and adjust each item in order to obtain the optimum image.



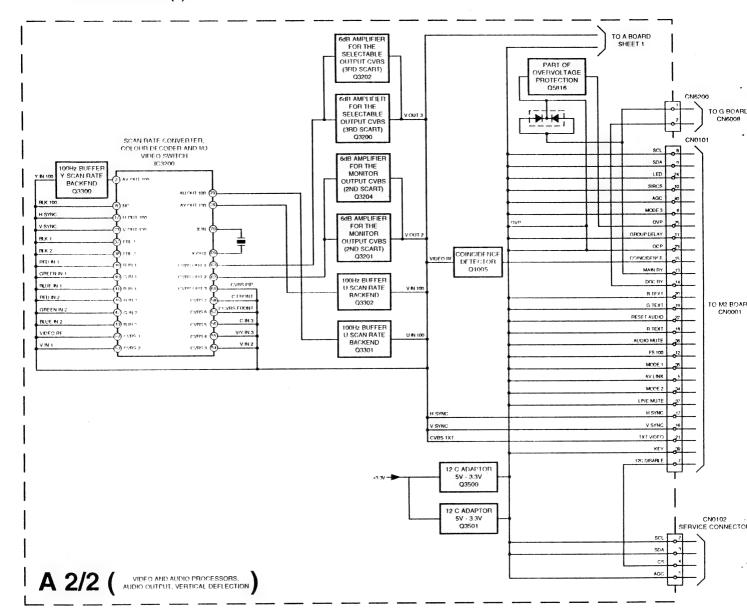
GEOMETRY			
ABL TH	(0, 3)	0	١
ABL MODE	(0, 3)	0	١
P ABL	(0, 15)	15	١
V SIZE	(0, 63)	35	١
V POSITION	(0, 63)	33	١
V COMP	(0, 3)	1	ı
V LIN	(0, 15)	7	
S CORRECTION	(0, 15)	7	١
H SIZE	(0, 63)	44	١
PIN AMP	(0, 63)	32	
UP CORNERPIN	(0, 63)	29	1
M PIN	(0, 3)	2	
LO CORNERPIN	(0, 63)	29	
TRAPEZIUM	(0, 15)	2	
H POSITION	(0, 63)	40	
AFC BOW	(0, 15)	8	
AFC ANGLE	(0, 15)	9	
LEFT BLK	(0, 63)	34	
RIGHT BLK	(0, 63)	17	
V ASPECT	(0, 63)	47	
AKBTIM1	(0, 3)	2	
AKBTIM2	(0, 1)	0	
IKR		1	
HNG		0	
VNG		0	
L			

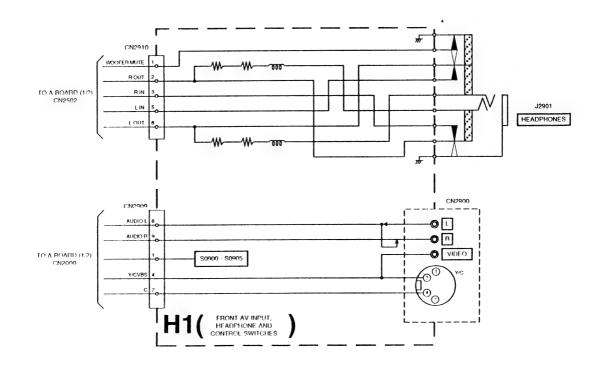
# 4-2.TEST MODE 2:

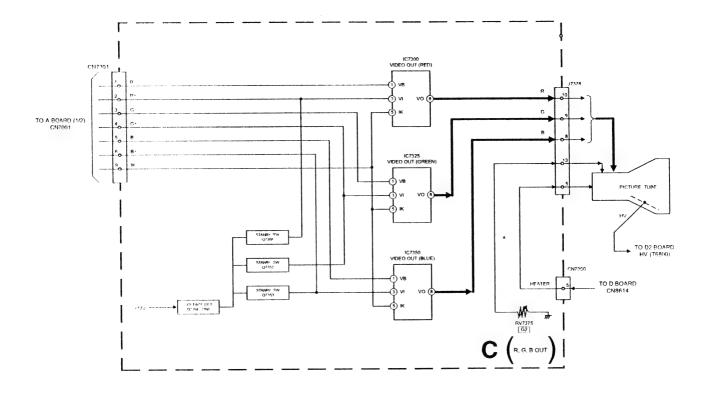
Test Mode 2 is available by rogramming the Remote Commander for operation in Service Mode [As shown on Page 22] then pressing the 'VIDEO' button twice, OSD 'TT' appears. The functions described below are available by selecting the two numbers. To release the 'Test mode 2', press 00, 10, 20 ... or switch the TV set into Stand-by mode.

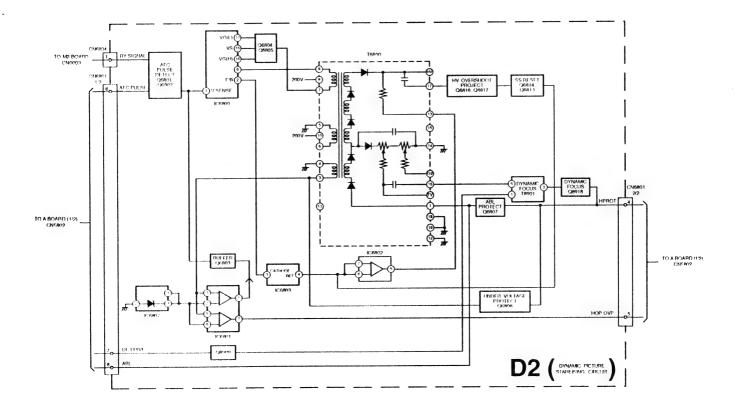
00	'TT' mode off		
01	Picture maximum		
02	Picture minimum		
03	Set speaker/headphone Volume to 35%		
04	Set speaker/headphone Volume to 50%		
05	Set speaker/headphone Volume to 65%		
06	Set speaker/headphone Volume to 80%		
07	Ageing mode		
08	Shipping Condition		
11	Sub picture adjustment		
12	Sub colour adjustment		
13	Sub Brightness adjustment		
14	Text H Position adjustment		
15	Rotation Coil Test		
16	Picture level 50%		
19	Factory Mode Enable/Disable		
21	Destination ADEKR		
22	Destination BL		
23	Destination ADEKR		
24	Destination U		
25	Destination ADEKR		
26	Destination BL		
27	Destination ADEKR		
28	Destination ADEKR		
31	Auto Shutoff Enable/Disable		
36	Velocity Modulation (VM) OFF/ON test		
41	Re-initialise NVM		
43	Select Dual A sound		
44	Select Dual B sound		
45	Select Mono sound		
46	Select Stereo sound		
48	Set NVM as non virgin		
49	Set NVM as virgin		
53	FM Overmodulation Enable/Disable		
55	Tuner selection (SONY/ALPS)		
59	Select Model 3 Scarts + PIP or 2 Scarts		
68	Enable/Disable X26 countermeasure (N problem)		
73	Enable Zweiton D/K2 system (6.5/6.74)		
74	Enable Zweiton D/K3 system (6.5/5.74)		
78	Balance full right		
79	Balance full left		
87	Local keys test		
99	Display Error and Working Time menu		

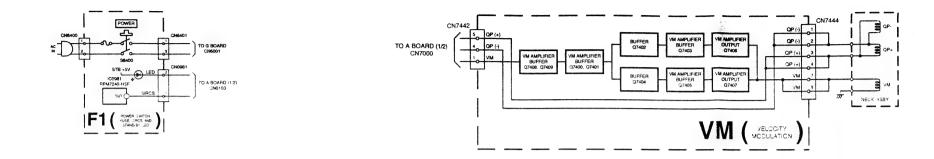
# 5-1. BLOCK DIAGRAMS (2)

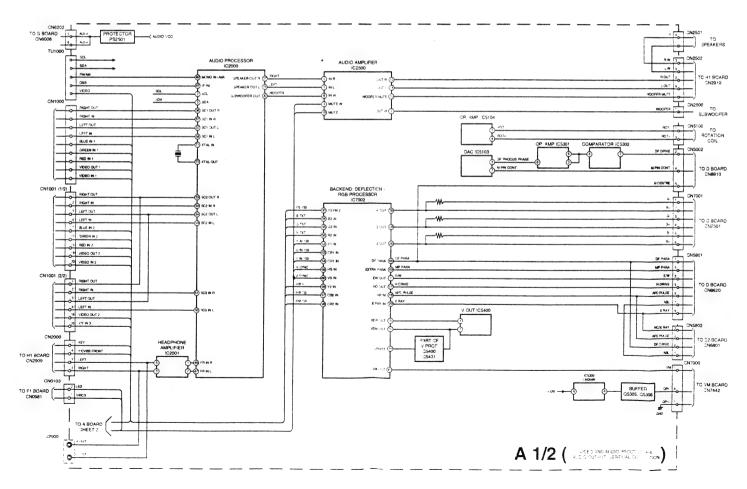


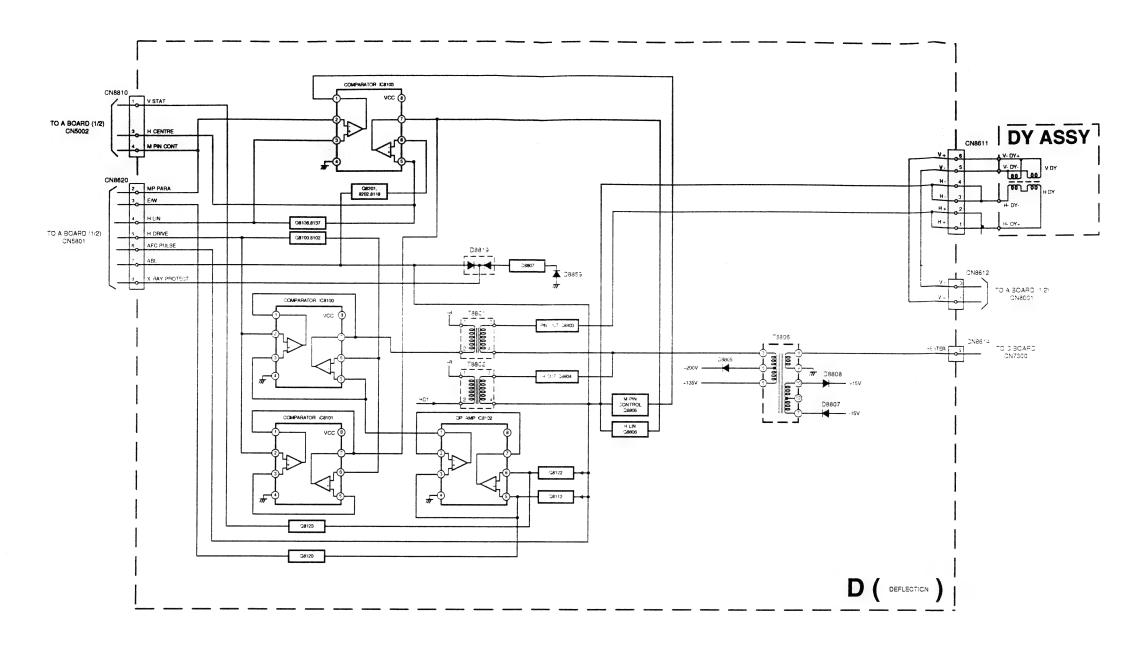


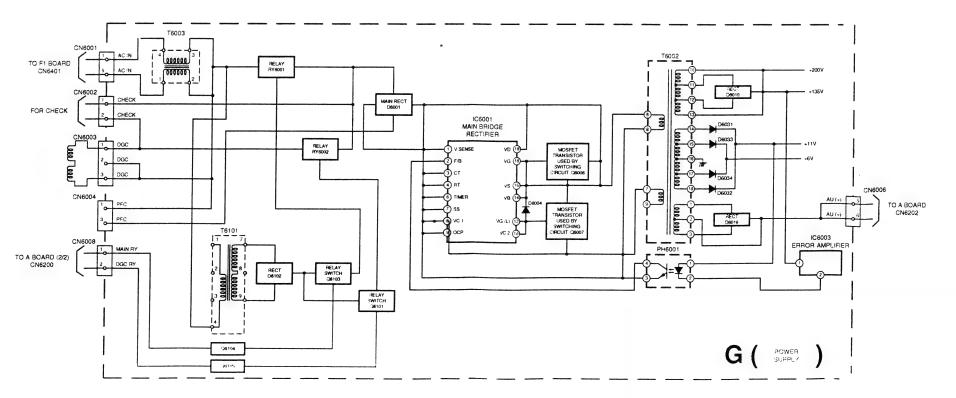




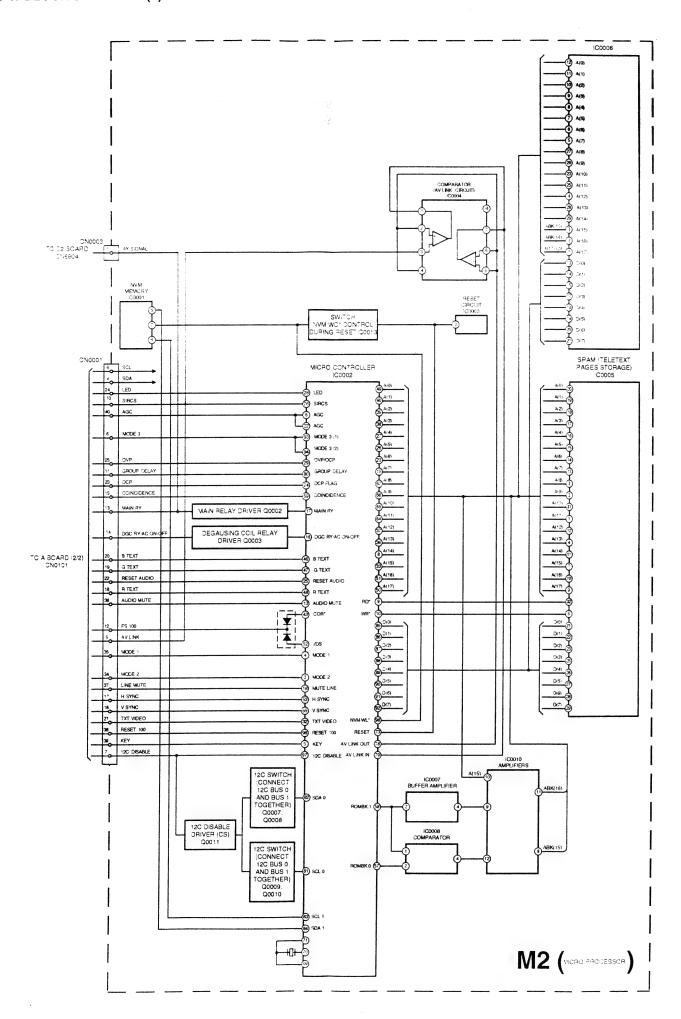




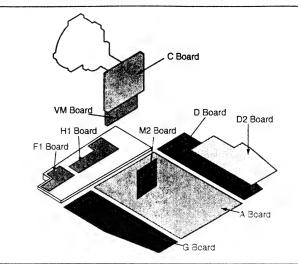




## 5-1. BLOCK DIAGRAMS (4)



# 5-2. CIRCUIT BOARD LOCATION



# 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

#### Note:

- All capacitors are in µF unless otherwise noted.
- pF: µµF 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5mm Electrical power rating: 1/4W

- Chip resistors are 1/10W
- All resistors are in ohms.
   k = 1000 ohms, M = 1000.000 ohms

: nonflammable resistor.

: fusible resistor.

: internal component.

: panel designation or adjustment for repair.

- All variable and adjustable resistors have
- characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mcnm digital mutimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerences.

: B + bus.

• B - bus.

• : RF signal path.

• <u></u> : earth - ground.

: earth - chassis.

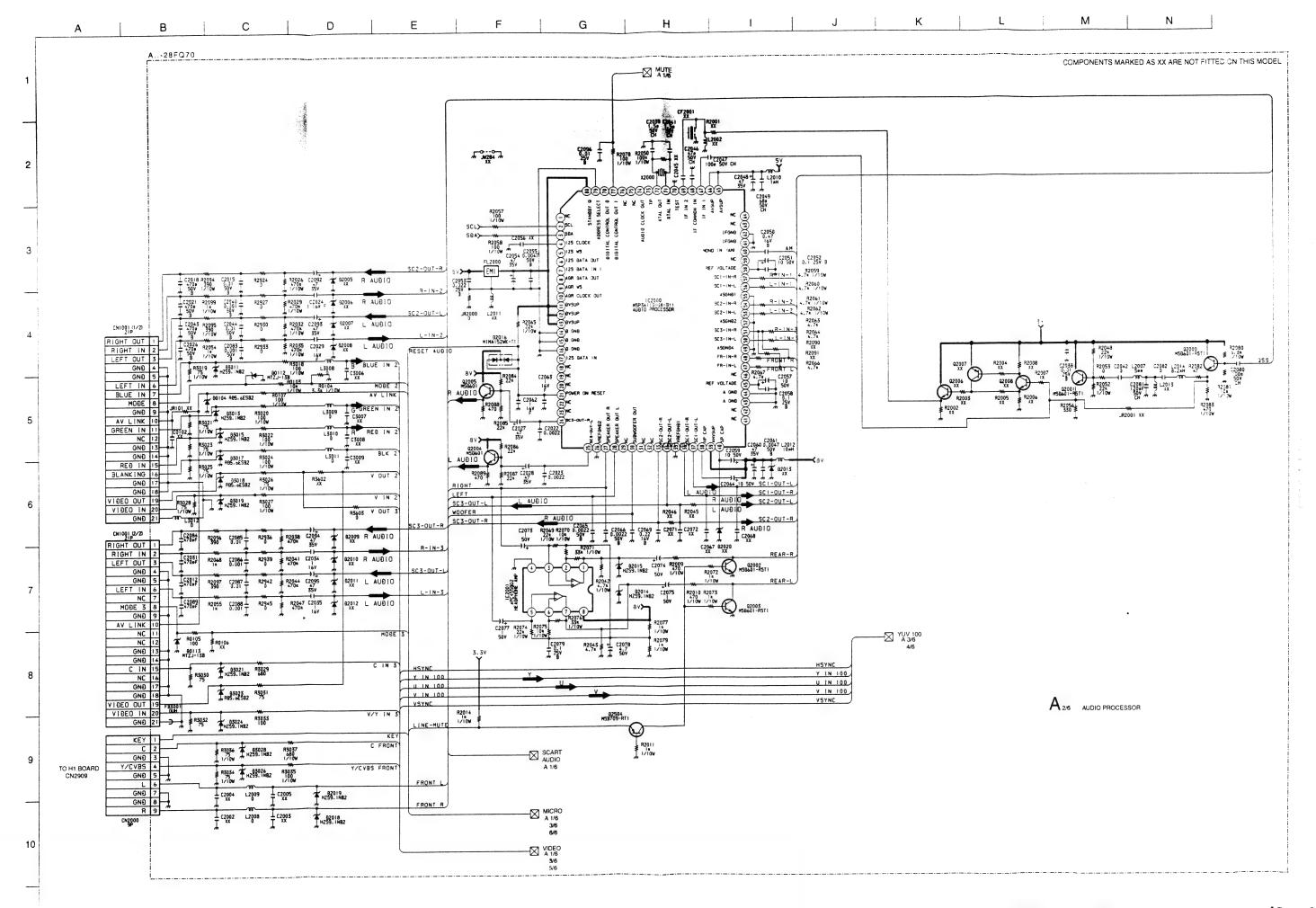
#### **Reference Information**

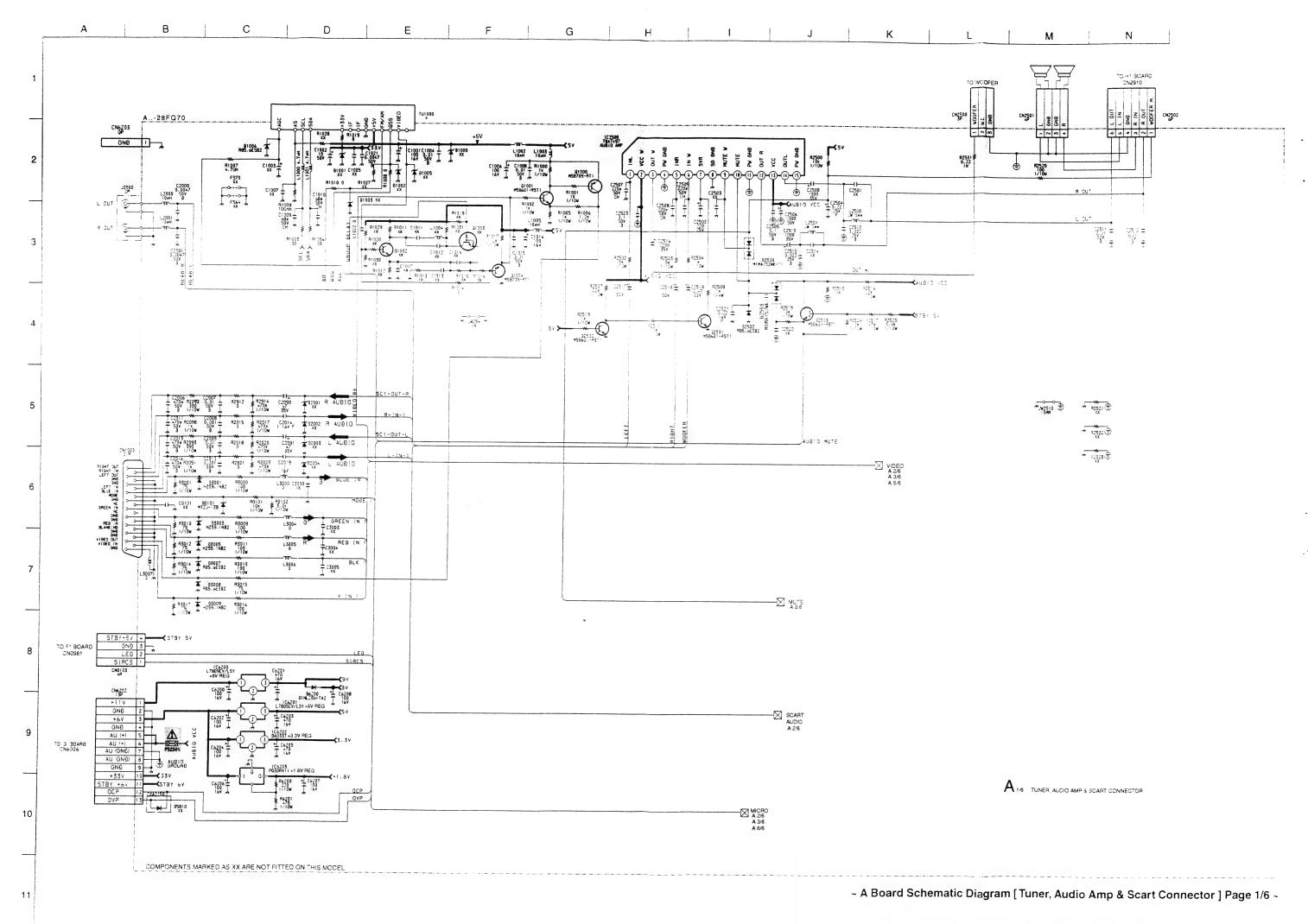
RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
	*	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

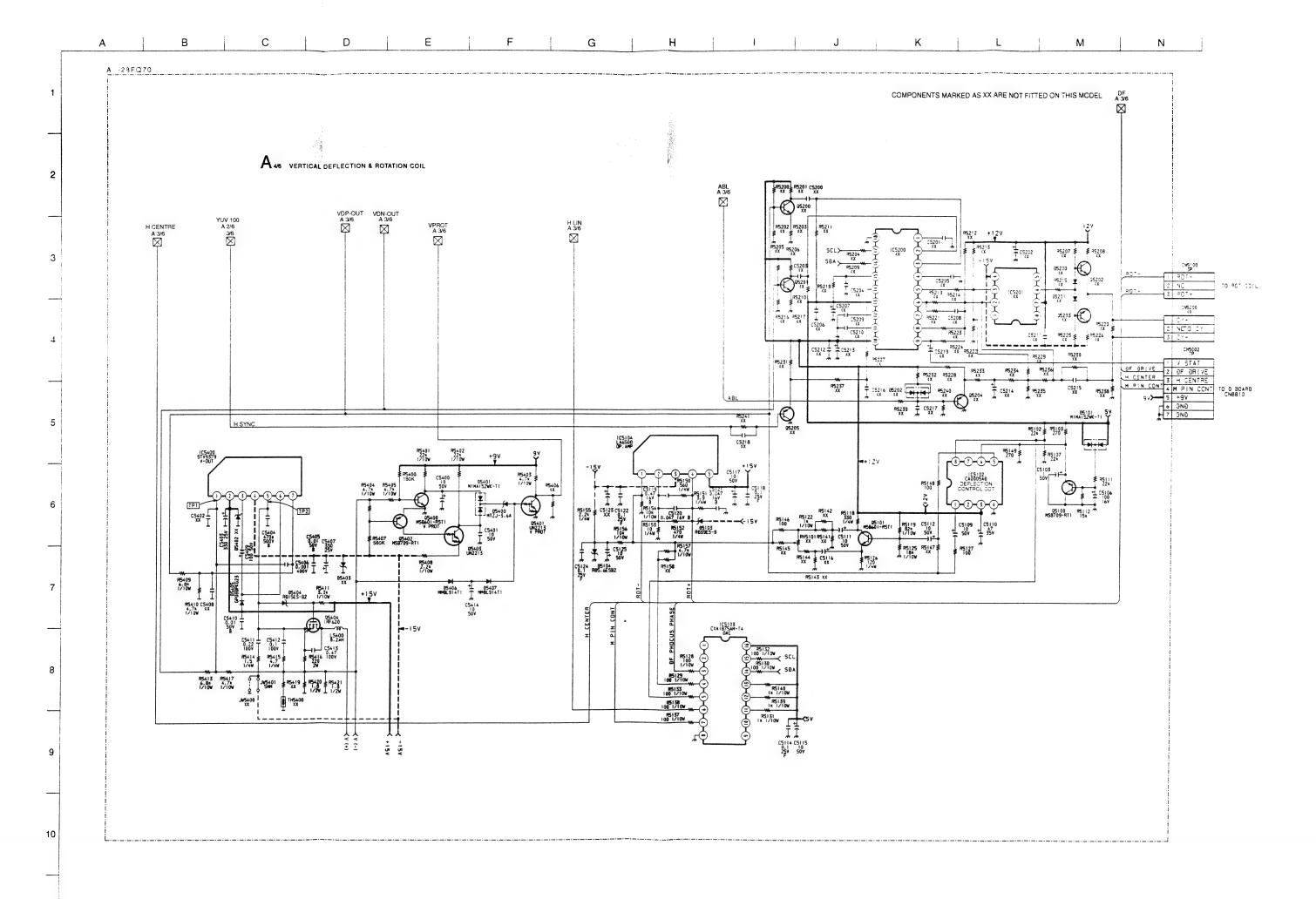
Note: The components identified by shading and marked ∆ are critical for safety. Replace only with the part numbers specified in the parts list.

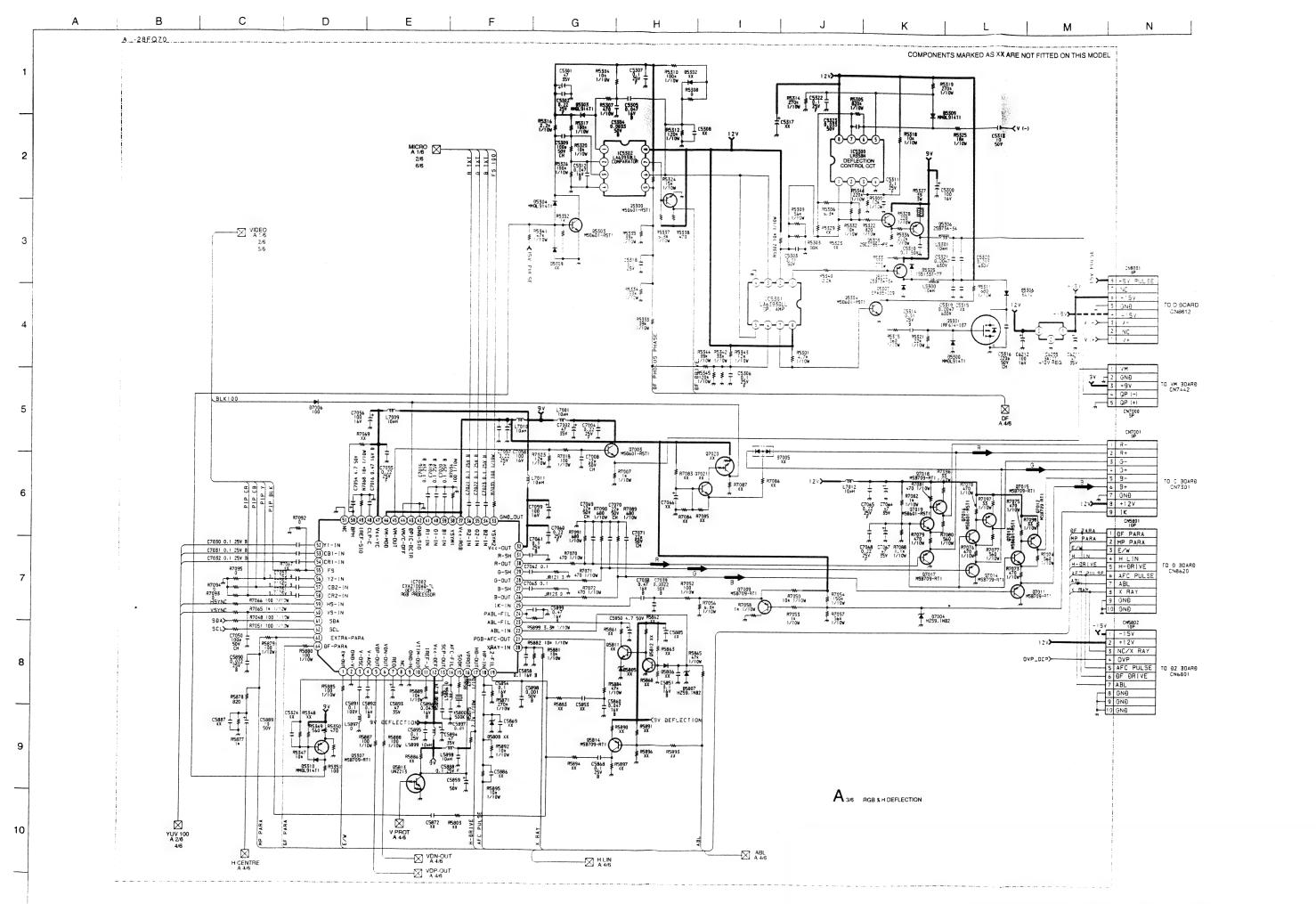
Note: Les composants identifiés par une trame et par une marque ∆ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié. specified.

- 28 -

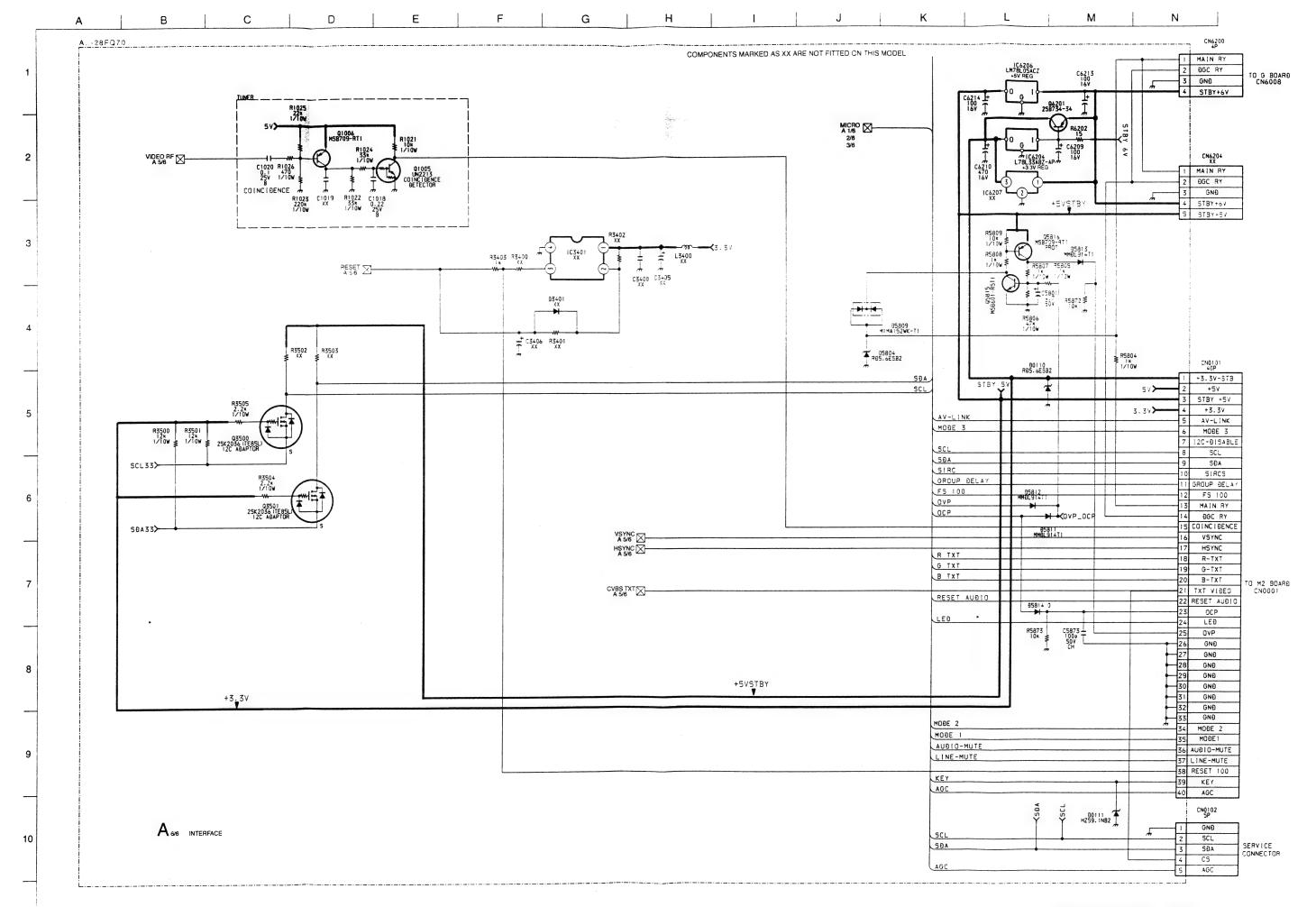




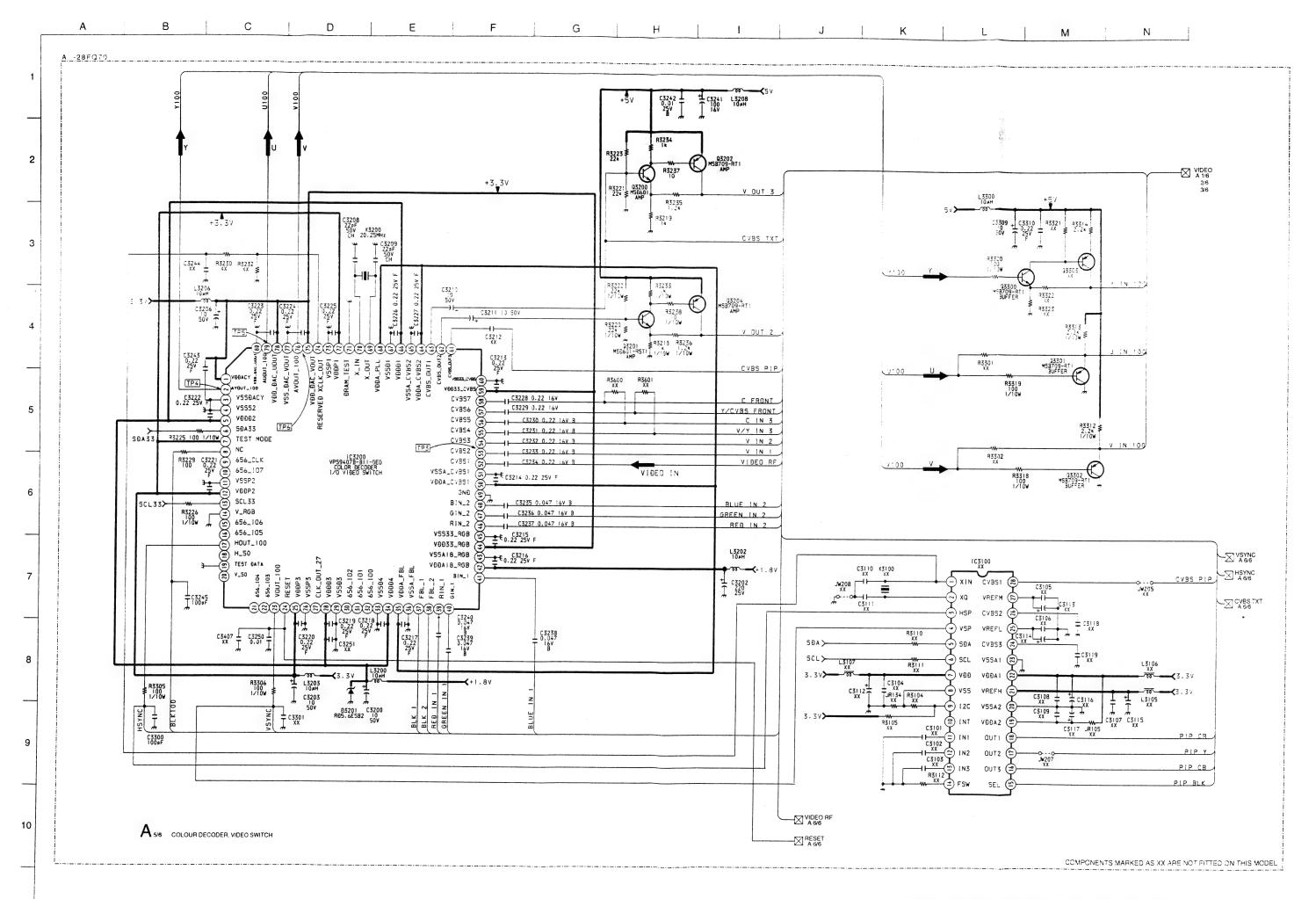




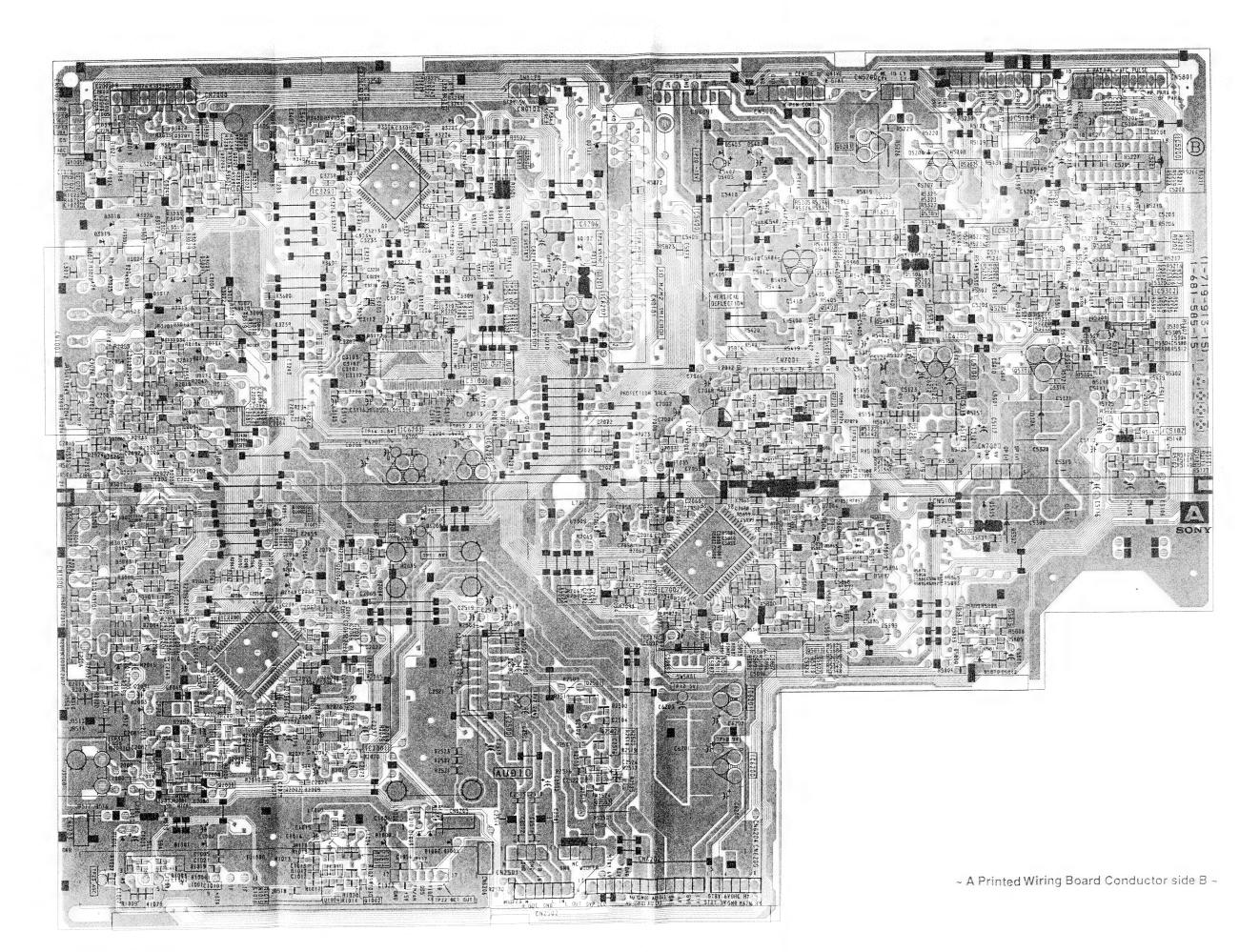
11



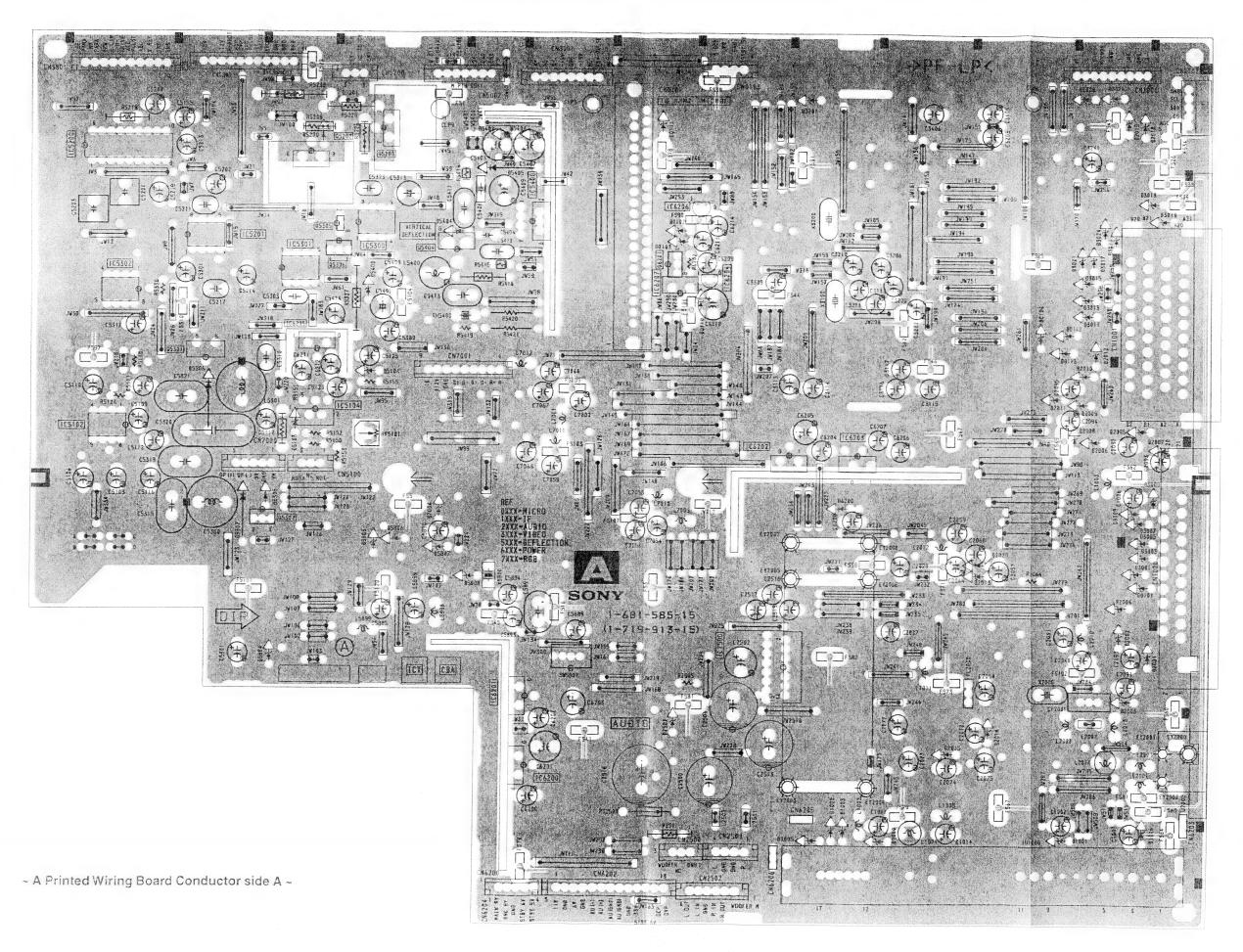
11



A B C D E F G H I J K L M N



B C D E F G H I J K L M N



# ~ A Board Semiconductor Voltage Table ~

Ref	(0)	(g)	(d)	Ref	(e)	(b)	(c)	Ref	(0)	(b)	, (c)	Ref	(0)	(b)	(c)	Ref	( <b>•</b> )	(b)	(c)	Ref	(•)	(p)	(c)
Q3500	2.7	3.3	3.9	Q2002	0	0	4	Q3204	5	4.4	3.4	Q5205	1.9	1.2	0	Q5813	0	7.9	0	Q7015	11.6	10.9	8.8
Q3501	2.7	3.3	4	Q2003	0	0	4	Q3300	0.7	1.3	5	Q5300	0	0.4	2.2	Q5814	0	0	0	Q7016	6	6.6	10.9
Q5301	0	5.1	51.2	Q2004	3.3	3.9	8.3	Q3301	1.9	1.2	0	Q5301	5.1	0	51.2	Q5815	0	0	5	Q7017	2.7	2	0
Q5404	0	0	0.5	Q2005	3.3	3.9	8.3	Q3302	1.9	1.2	0	Q5302	8.9	5.7	0	Q5816	5	5	0	Q7018	11.6	10.9	8.6
. 0.0			VOI.	Q2501	0	0	15.2	Q3500	3.3	2.7	3.9	Q5304	0	0.4	5.6	Q7003	5.6	6.2	8.8	Q7019	6	6.6	10.9
Q1001	3.2	3.9	8.3	Q2502	0	0.7	0	Q3501	3.3	2.7	4	Q3400	0	0	0.1	Q7009	3.2	7	0.1	Q7020	8.9	8.9	0
Q1004	1.9	1.3	0	Q2503	0.6	0.6	0.5	Q5101	0	0.4	6.4	Q5401	0	0	7.9	Q7011	2.5	1.9	0	Q7021	2.7	2.7	8.9
Q1005	0	0.5	5	Q3200	1.9	2.5	4.4	Q5201	2.8	3.4	7.9	Q5402	0	0	-11.3	Q7012	11.6	10.9	8.7				
Q1006	5	4.7	1	Q3201	1.9	2.5	4.4	Q5202	0.2	0.8	11.7	Q5403	-13.5	-11.2	-8.3	Q7013	6	6.6	10.9				
32000	4.2	48	8.3	Q3202	5	4.4	3.4	Q5203	0.2	0.8	11.7	Q5404	0	0	0.5	Q7014	2.5	1.8	0				

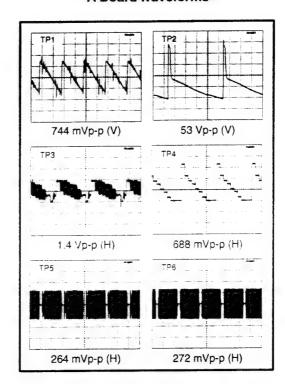
### ~ A Board IC Voltage Table ~

Ret No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volta (V)	Ref No	Pin No	Yofts (V)
	1	3.3	tine of the second	5	6.5	ermetrick	10	0.4	AHATAT M	38	0
	2	3.3		6	7.1		11	1.9		39	4.8
	3	1.9	IC5301	7	0.4		12	0.4		40	4.8
4 7 4	4	2.6		8	12		13	0.9		41	4.8
	5	2.5		1	0		14	5		42	0
	6	1.3		2	5.8		15	2.5		43	0
	7	2		3	6.3		16	0		44	0
	8	. 0		4	0		17	3		45	6.3
IC5103	9	3,1	IC5302	5	6.6		18	2.7		46	8.9
208 37	10	3		6	6.5		19	3.9		47	8.9
	11	5	2002	7	0.4	4.4	20	1 0	24 34 35 3 4 4 4	48	6
	12	5		8	12		21	6.1	Y 80 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	49	2.5
1961 F 187	13	5		1	1.4		22	2.7		50	4.1
C. C	14	0	- et	2	13.2	200	23	8.8	IC7002	51	0
	15	0	40-4	3	-12.5	IC7002	24	0		52	6
	16	5	IC5400	4	-15.4	Control of	25	4.3		53	5.8
. The seal of		1 6	a no-co	5	-0.4		26	3.2		54	5.8
	1	6	7 7	6	13.7		27	5.2	* *	55	0.4
	3	: 6		7	1.4	200	28	0.3		56	5.8
		0		1	3.6		29	4.9		57	5.8
#C5300	5		100	2	0	S 243	30	3.4		58	5.8
		6		3	4.4	120 F	31	5.6		59	0.3
	6	6	a garaga da	4	4.8		32	8.9		50	0
	7 8	12	IC7002	5	3.5		33	0		61	0
			107002	6	3.4		34	4.7		62	2.9
	1	1.7	1	7	7.6		35	4.7		63	3.7
IC5301	2	8.5			0		36	4.7			
	3	6.5		8	0		37	8.9			

## ~ A Board Difference Table ~

Ref	* KW-28FQ70B	KV-28FQ70E	KV-28F070U
TU1000	FRONTEND	FRONTEND	FRONTEND
	BTF-EF411	BTF-EC411	BTF-EU611

### ~ A Board Waveforms ~

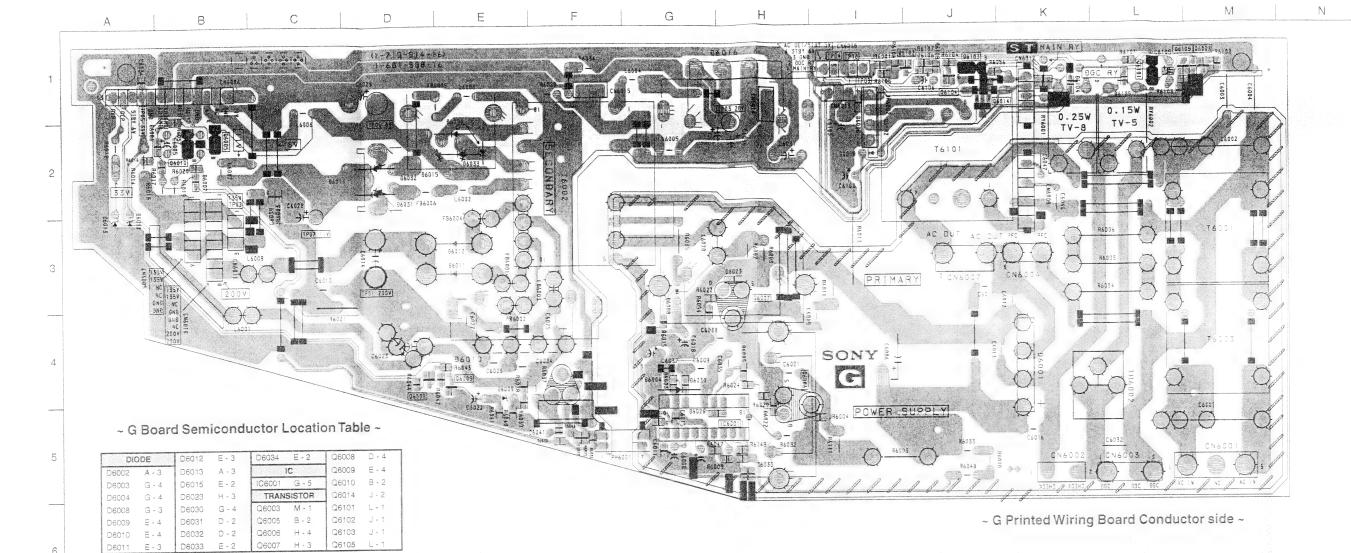


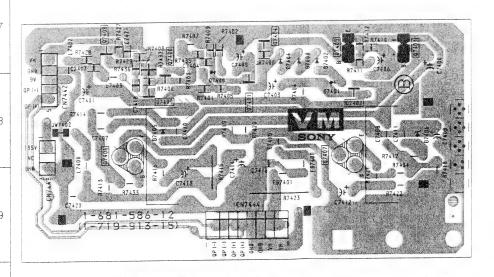
### ~ A Board Location Table (A Side) ~

DIO	DE	21006	M - 10	. D3003	M - 7	D3015	M - 4	D3026	M - 2	D5305	D - 6	D6200	J-6	IC5301	D - 4	1C6206	H - 3
D0101	M - 7	D2014	L-9	D3005	M - 7	D3017	M - 4	D3028	M - 2	D5306	C - 5	D7004	F-7	IC5302	B - 4	IC6207	H - 4
D0104	L - 5	D2015	K - 9	D3007	M - 7	D3018	N - 3	D3201	J-2	D5307	D - 7	· · · · · · · · · · · · · · · · · · ·	<b>:</b>	IC5400	G - 4	TRANS	ISTOR
D0110	1-4	D2018	M - 2	D3008	M - 7	D3019	N - 3	D5103	D - 6	D5400	E - 4	IC5104	D-6	IC6201	G - 9	Q5202	E- 2
D0111	H - 2	D2019	M - 2	D3009	N - 7	D3021	M - 4	D5104	E - 5	D5404	F - 4	IC5200	B - 3	IC6202	1 - 6	Q5301	C - 5
D0112	M - 4	D2502	н-9	D3011	M - 4	D3023	M - 4	D5200	D - 2	D5405	F-3	IC5201	C - 4	C6203	J-6	Q5306	€ - 4
D0113	M - 5	D3001	M - 7	D3013	M - 4	D3024	M - 4	D5201	E - 2	D5807	F-7	IC5300	E - 4	IC6205	D - 5	Q5404	F - 4

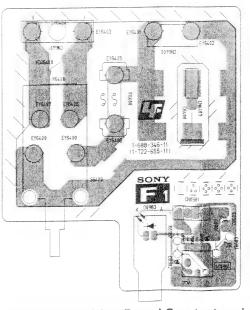
### ~ A Board Location Table (B Side) ~

DIC	DDE	D2503	G - 9	D3024	8 - 3	D5309	J - 3	IC5103	L-3	TRAN	SISTOR	Q3201	C - 2	Q5300	M - 4	Q7003	H - 6
D0101	B - 7	D3001	B - 7	D3026	B - 2	D5400	K - 4	IC5104	K - 5	Q1000	C-6	Q3202	C - 3	Q5301	L-5	Q7009	1 - 7
D0104	C - 5	D3003	B - 7	D3028	C - 2	D5401	J - 4	1C5200	M - 3	Q1001	D - 6	Q3204	C - 3	Q5302	K - 7	Q7011	J - 6
D0110	G-4	D3005	B · 7	D3201	F - 2	D5404	J - 3	IC5201	L - 4	Q1004	D - 11	Q3300	F - 3	Q5303	M - 4	Q7012	J - 5
D0111	G - 2	D3007	3 - 6	D5103	L-6	D5405	1 - 3	IC5300	J - 3	Q1005	B - 2	Q3301	F - 3	Q5304	M - 5	Q7013	J - 6
D0112	C - 5	D3008	B - 6	D5104	J - 5	D5809	K - 8	IC5301	K - 4	Q1006	B - 3	Q3302	F - 3	Q5305	K - 3	Q7014	J-6
D0113	C - 5	D3009	B - 6	D5200	K - 2	D5811	L-8	IC5302	M - 4	Q2000	C - 9	Q3500	F - 3	Q5306	K - 4	Q7015	1 - 5
D1006	B - 10	D3011	C - 4	D5202	L-4	D5812	L - 8	IC5400	1 - 3	Q2002	D - 9	Q3501	F - 3	Q5400	J - 4	Q7016	1-6
D2014	C - 9	D3013	C - 4	D5300	L - 5	D6200	E - 7	IC6200	1-9	Q2003	D - 9	Q5101	M - 5	Q5401	J - 4	Q7017	1 - 6
D2015	D - 9	D3015	C - 4	D5303	N - 4	rijatsja i	C	IC6201	1-8	Q2004	E - 7	Q5200	M - 4	Q5402	J - 5	Q7018	1 - 5
D2016	E - 8	D3017	8 - 4	D5304	M - 4	IC2000	C-8	IC6202	F - 6	Q2005	E - 7	Q5201	N - 4	Q5403	J - 4	Q7019	I - 6
D2018	B - 2	D3018	B - 3	D5305	L-6	IC2001	D - 9	IC6203	E - 6	Q2501	G - 8	Q5202	K - 3	Q5404	J - 4		
D2019	B - 2	D3019	B - 3	D5306	L - 5	IC2500	F - 8	IC6205	K - 5	Q2502	G - 9	Q5203	J-2	Q5813	J - 8	1	
D2500	G - 9	D3021	C - 4	D5307	L - 7	IC3100	E - 5	IC6206	G - 3	Q2503	G - 9	Q5204	L - 4	Q5815	L - 8	l	
D2502	G - 9	D3023	B · 3	D5308	M - 4	IC3200	E ⋅ 3	IC6207	G - 4	G3200	C - 3	Q5205	M - 3	Q5816	L-3	]	

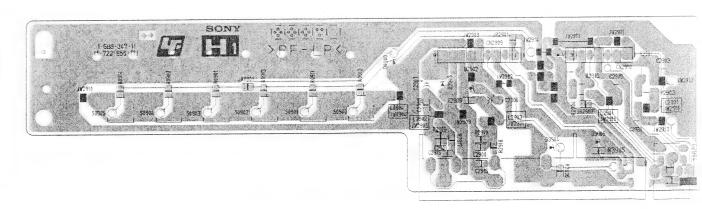




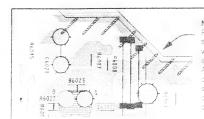
~ VM Printed Wiring Board Conductor side ~



~ F1 Printed Wiring Board Conductor side ~



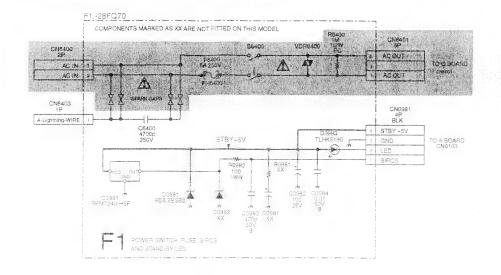
~ H1 Printed Wiring Board Conductor side ~



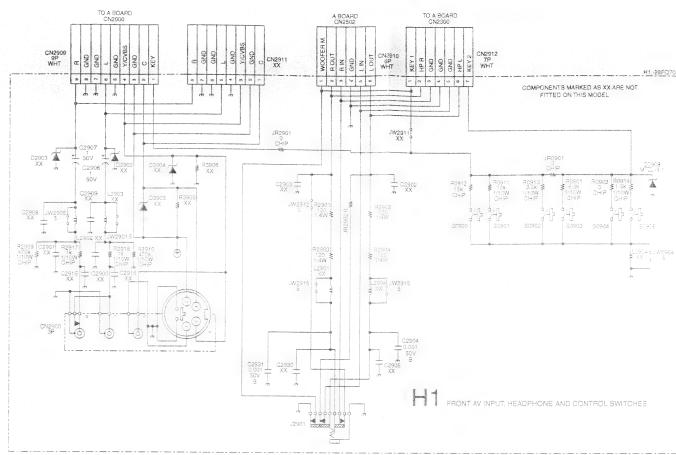
Note

ne marked areas as shown have high oltages present. Use dare to prevent lectric shock during inspection or repair, in isolation Transformer must be used uring any Service work to avoid possible hock hazard due to live chassis. The hassis of this receiver is firectly onnected to the power ine. A B C D E F G H I J K L M N

~ F1 Board Schematic Diagram [ Power Switch, Fuse, SIRCS and Stand-By LED ] ~

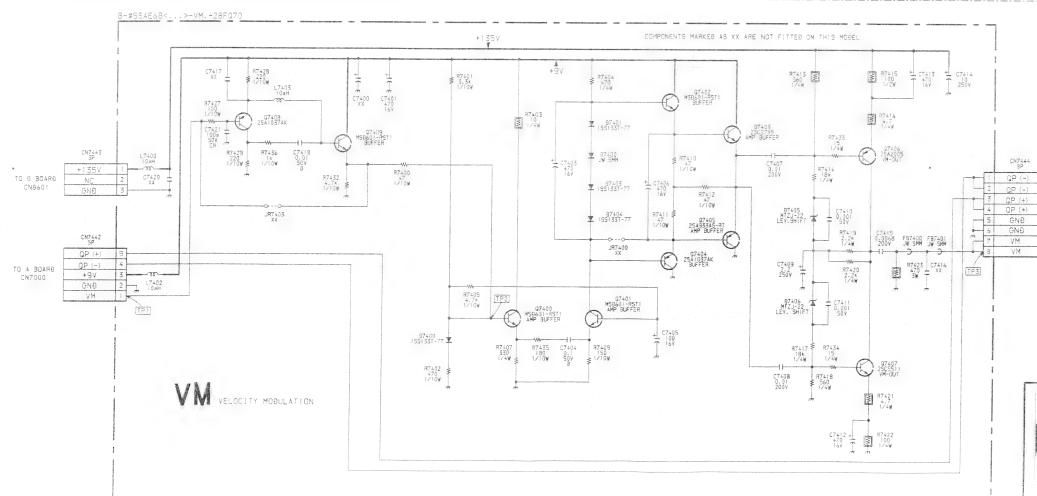


~ H1 Board Schematic Diagram [ Front AV Input, Headphone and Control Switches ] ~



~ VM Board Schematic Diagram [Velocity Modulation] ~

10

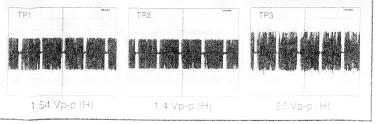


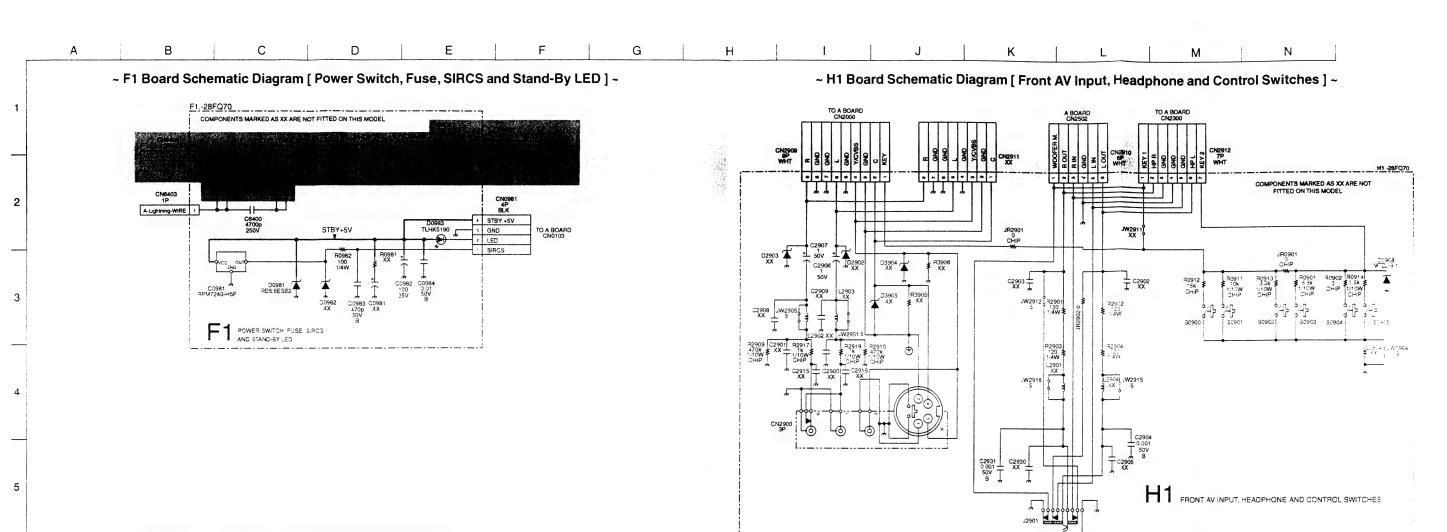
### ~ VM Board Voltage Table ~

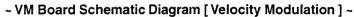
			TOTAL PROPERTY AND ADDRESS.
Ref	(e)(s)	(b)(g)	(c)(d)
Q7400	5.0	5.7	8.7
Q7401	0.9	1.5	4.1
Q7402	5.5	6.1	8.9
Q7403	5.1	5.5	8.9
Q7404	4.7	4.1	0
Q7405	5.1	4.7	0
Q7406	134	133.8	68
Q7407	1.1	1.4	68
Q7408	6.3	5.6	2.5
Q7409	5.7	6.3	0.9

TO NECK ASSY

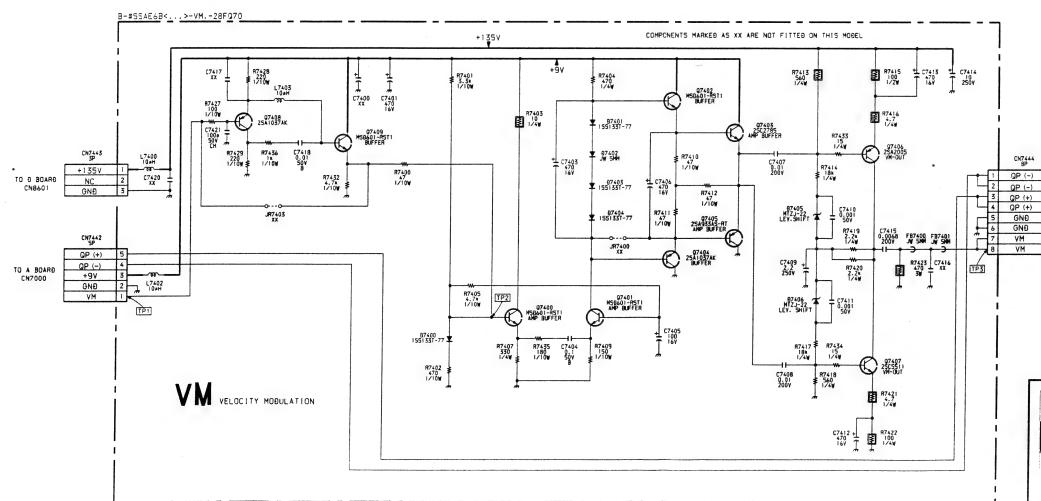
~ VM Board Waveforms ~







10

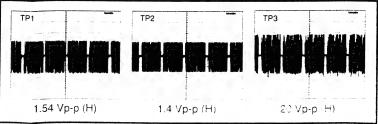


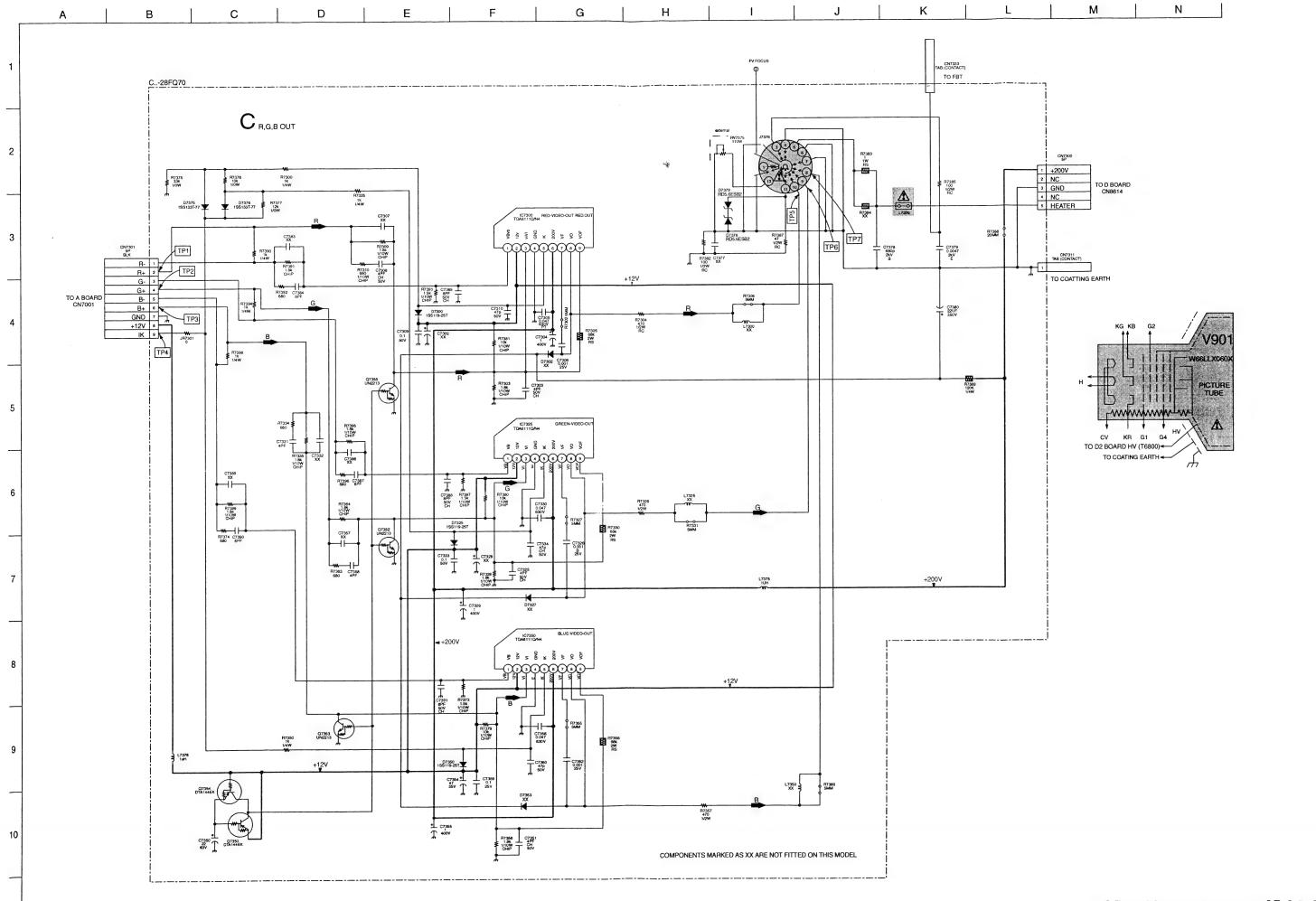
### ~ VM Board Voltage Table ~

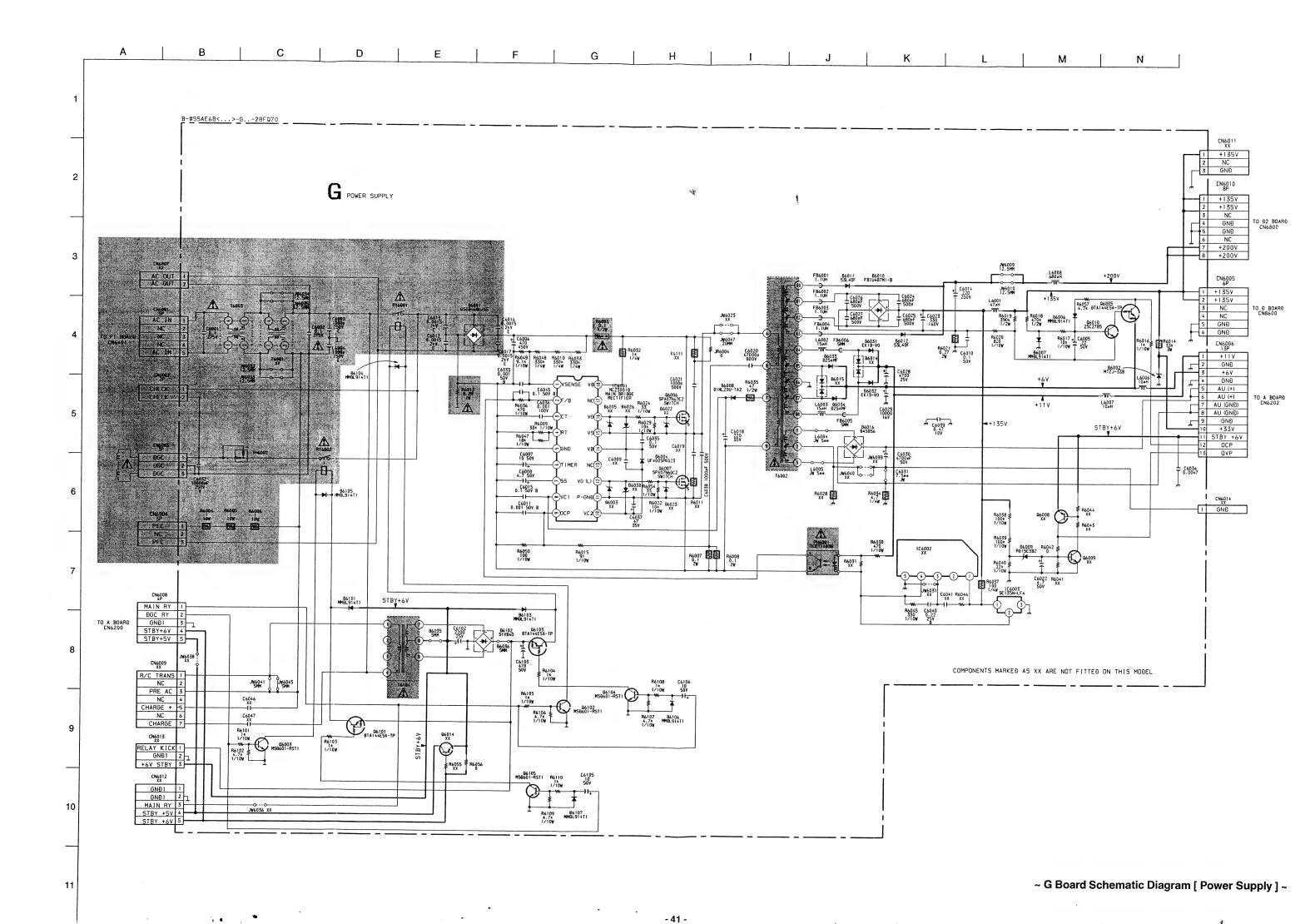
Ref	(e)(s)	(b)(g)	(c)(d)
Q7400	5.0	5.7	8.7
Q7401	0.9	1.5	4.1
Q7402	5.5	6.1	8.9
Q7403	5.1	5.5	8.9
Q7404	4.7	4.1	0
Q7405	5.1	4.7	0
Q7406	134	133.8	68
Q7407	1.1	1.4	68
Q7408	6.3	5.6	2.5
Q7409	5.7	6.3	0.9

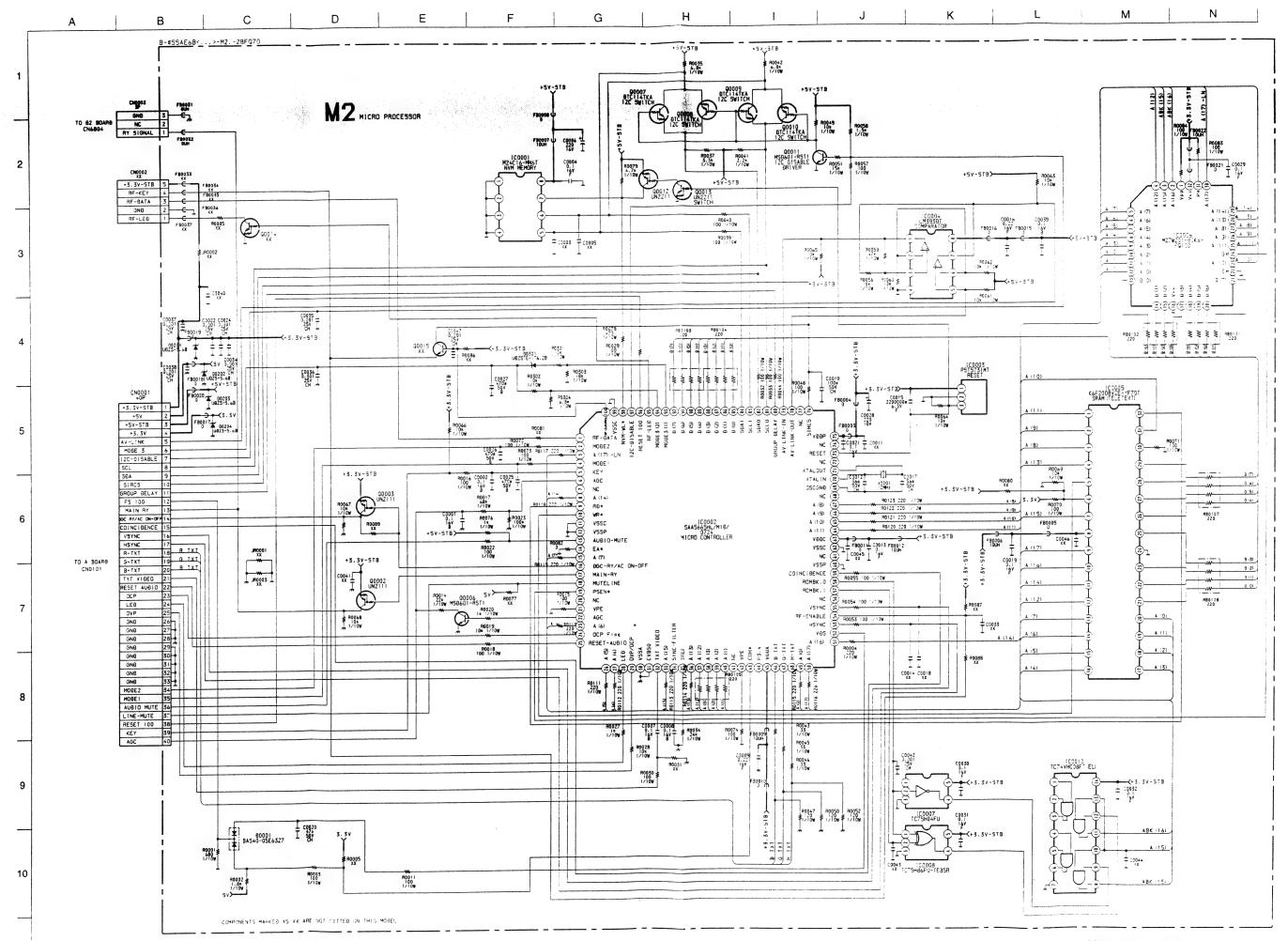
TO NECK ASSY

~ VM Board Waveforms ~









~ C Printed Wiring Board Conductor side ~

OKJULTA E E A A A A A A A A

SONY

~ C Board Waveforms ~

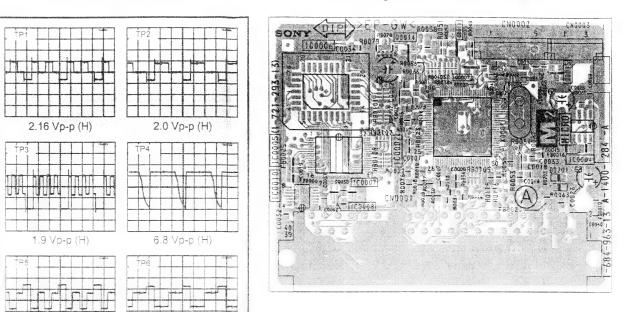
116 Vp-p (H)

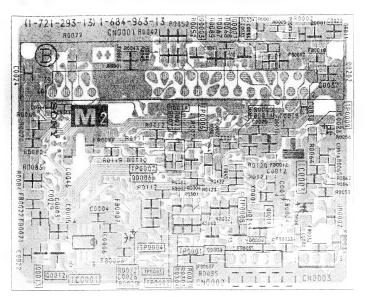
100 Vp-p (H)

100 Vp-p (H)

~ M2 Printed Wiring Board Conductor side A ~

~ M2 Printed Wiring Board Conductor side B ~





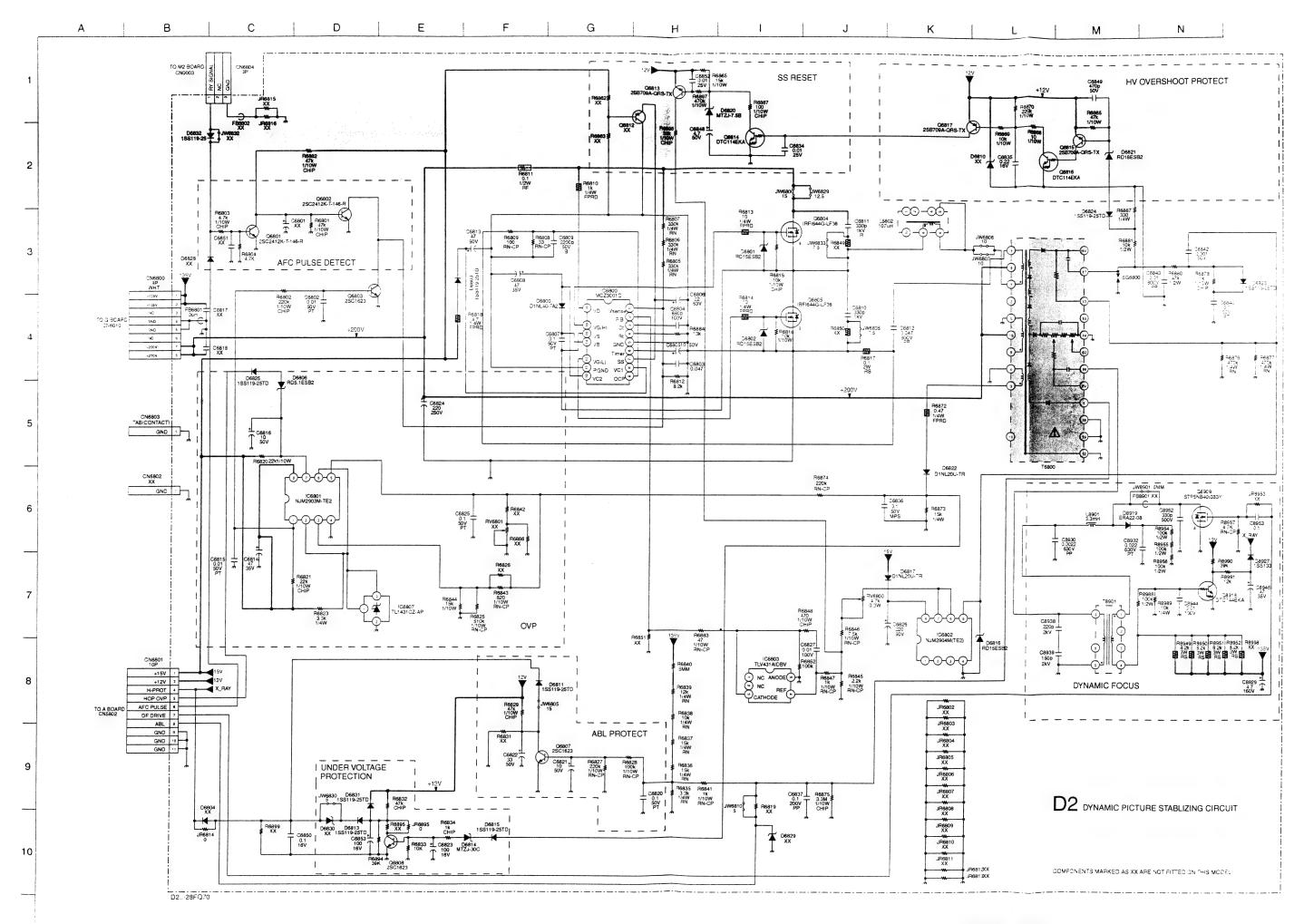
~ C Board Semiconductor Voltage Table ~

Su men material and an annual and an annual and an	· ·	enthrescensial state our	penesionomorema
Ref	(e)	(b)	(c)
Q7350	12	11,98	0
Q7352	0	0	3.8
Q7353	0	0	3.8
Q7354	11.98	12	0
Q7355	0	0	3.8

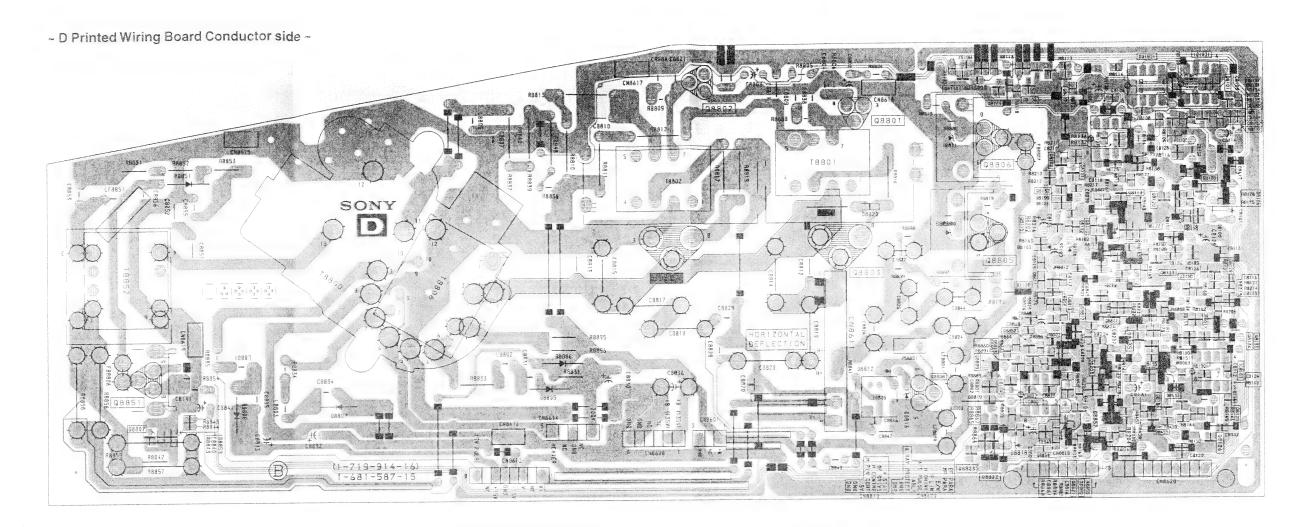
~ C Board IC Voltage Table ~

IC	Voltage	Table
Ref No	Pin No	Voltage (V)
	1	3.9
	3	3.8
	5	7.5
C7300	6	200
	7	140
	8	153
	9	140
	1	3.9
	3	3.8
	5	7.7
C7325	6	200
	7	140
	8	153
	9	140
	1	3.9
	3	3.8
	5	7.5
C7350	6	200
	7	139
	8	148
	9	138

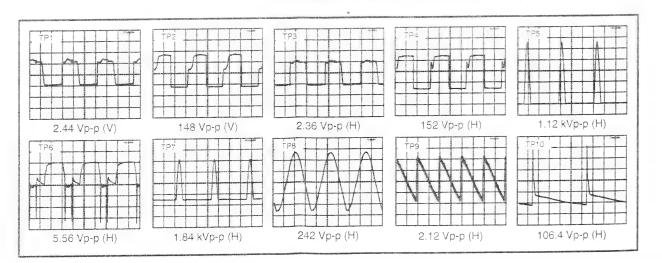
Post Conductor side - D2 Printed Wiring Board Conductor side - D2 Printed Wiri



A B C D E F G H I J K L M N



### ~ D Board Waveforms ~



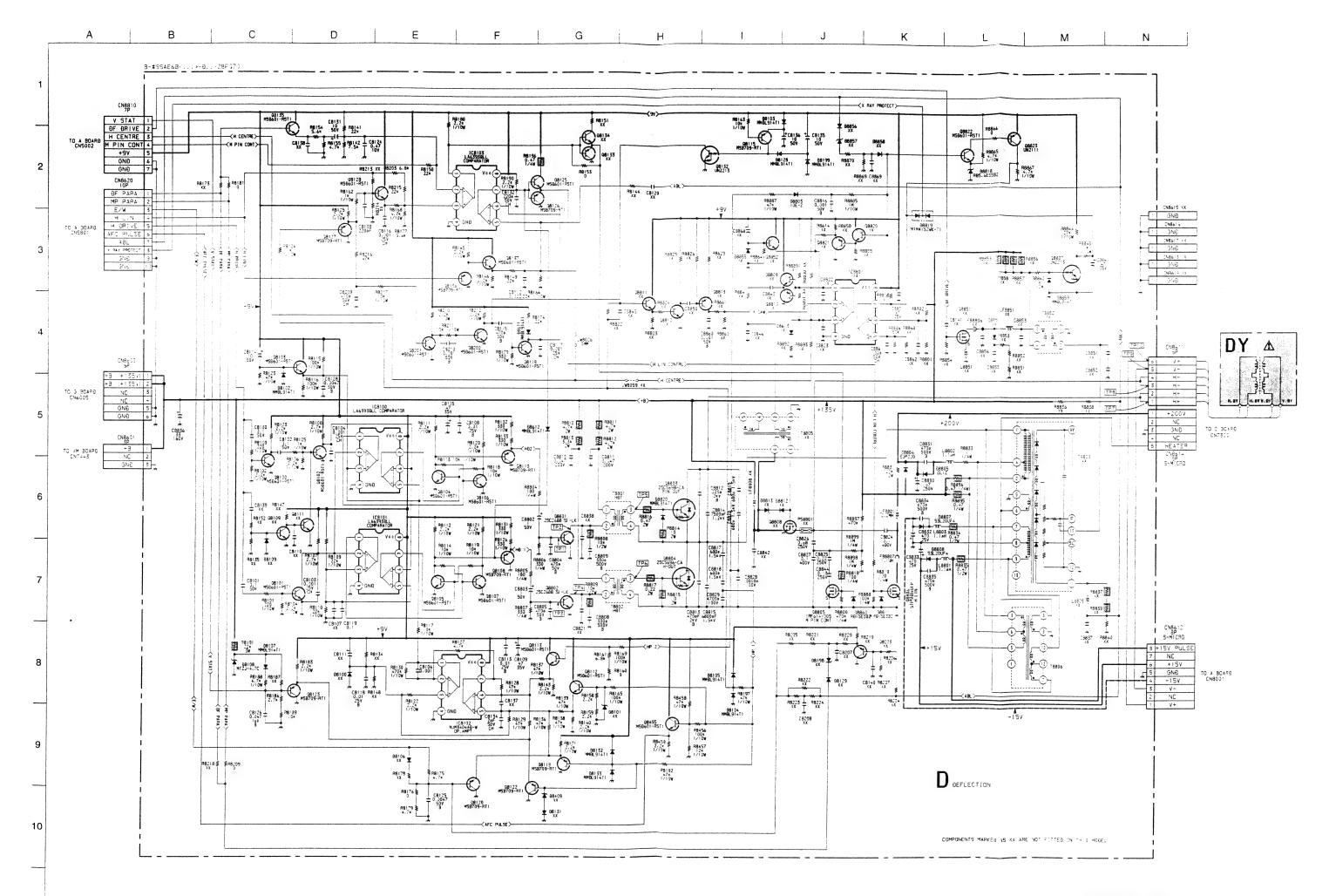
## ~ D Board IC Voltage Table ~

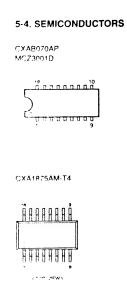
IC	Voltage	Table
Ref No	Pin No	Voltage (V)
	1	0.3
	2	4.3
IC8100	3	4.1
100 100	5	4.1
	6	3.0
	7	0.4
	1	0.3
	2	4.3
IC8101	3	4.4
108101	5	4.4
	. 6	3.0
	7	0.4
	1	4.1
	2	0.4
IC8102	3	0.4
100102	5	0.4
	6	0.4
	7	0.4
	1	2.5
	2	2.1
iC8103	3	1.7
100103	5	1.6
	6	1.0
	7 .	1.1

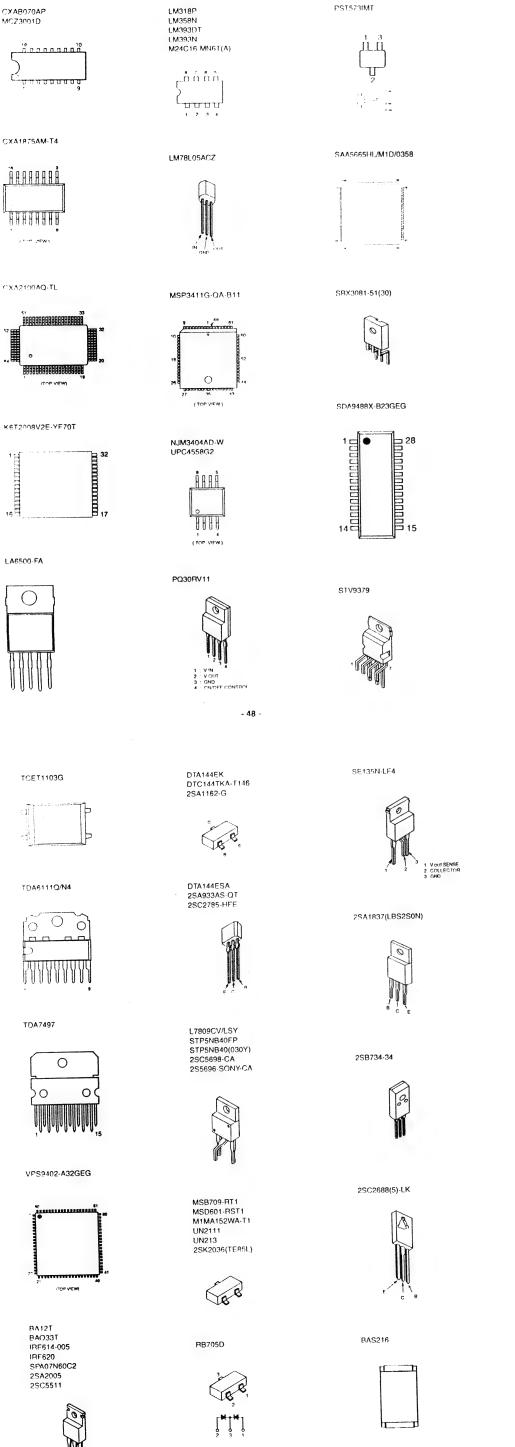
### ~ D Board Semiconductor Voltage Table ~

											****	CAN DESCRIPTION OF THE PERSON OF THE	and the second second	general mentiones and	processors and the con-
Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)
Q8100	0	0.6	3.6	Q8110	2.4	3.1	0	Q8128	3.4	1.5	8.9	Q8801	0	0.4	64.7
Q8101	0	0.6	4.3	Q8113	0.3	0.2	8.9	Q8132	0	0	3.4	Q8802	0	0.4	73.2
Q8102	0	0.3	4.3	Q8115	8.6	8.9	0	Q8135	2.6	3.2	8.9	Q8807	0	6.3	0
Q8103	4.0	0	8.9	Q8118	0	0	5.0	Q8136	2.5	1.8	0	Q8818	0	0	5.0
Q8104	0	0.4	3.1	Q8119	0.7	1.4	0	Q8137	1.8	2.5	8.9	Q8822	5.5	4.9	0
Q8105	0	0.4	3.2	Q8120	0.7	2.3	0	Q8201	0	0.6	3.9	Q8823	8.9	8.5	0
Q8106	0	0.3	4.3	Q8122	0.5	1.4	0	Q8202	0	0.8	3.4	Q8805	0	2.5	33
Q8107	0	0.3	4.2	Q8123	0.5	1.4	0	Q8203	1.4	0.9	0	Q8806	0	1.2	135
Q8108	2.4	3.2	0	Q8127	1.4	1.5	0	Q8455	1.1	1.7	8.9	Q8851	0	5.4	81.5

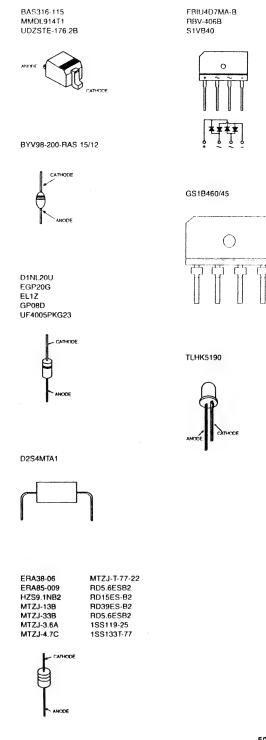
- 46 -

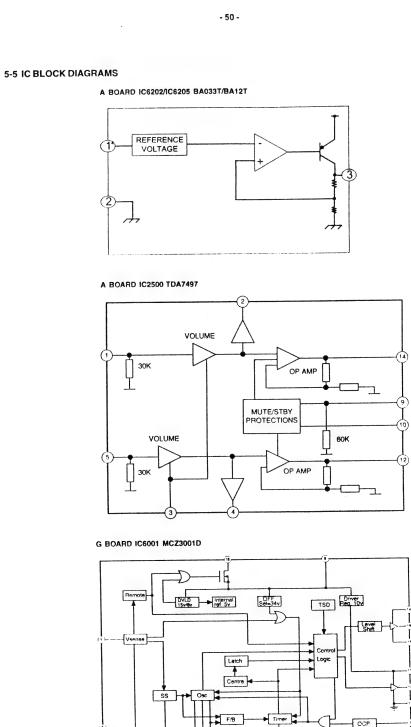






PST573IMT





# SECTION 6 EXPLODED VIEWS

### NOTE:

6-1. CHASSIS

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.

Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. Note: Les composants indentifies par une trame et par une marque Δ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

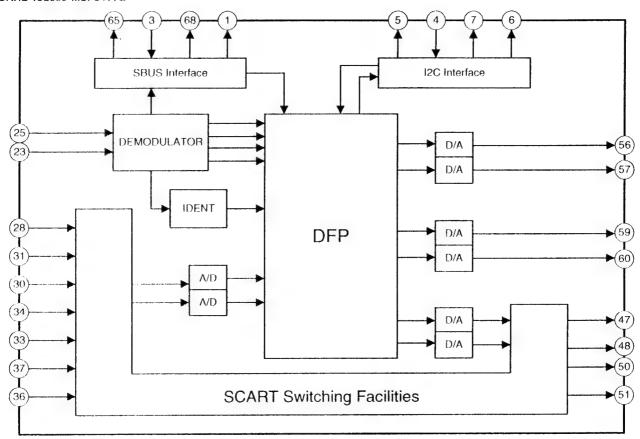
Note: The components identified by shading and marked A are critical for safety. Replace only with the part numbers specified in the parts list.

# 

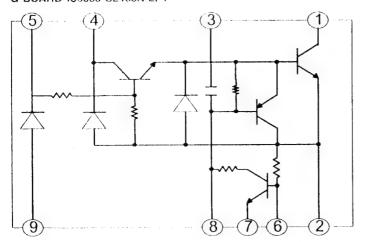
REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
1	*A-1302-135-A	H1 BOARD, COMPLETE		11	*A-1300-167-A	A BOARD, COMPLET	E (KV-28FQ70E)
2	*A-1302-134-A	F1 BOARD, COMPLETE			*A-1300-601-A	A BOARD, COMPLET	E (KV-28FQ70U)
3 △	1-571-433-21	SWITCH, PUSH (AC POWE	R) We will be a second	12 ▲	1-453-378-21	TRANSFORMER ASSY	, FLYBACK (NX-6020//Z214)
4	*4-202-531-01	AC CORD LOCK (SC)		13	*A-1300-530-A	D2 BOARD, COMPLE	TE
5 Δ	1-823-853-11	CORD, POWER (KV-28FQ	70B/28FQ70E)	14	*4-087-469-01	BRACKET, D2	
Δ	1-776-860-11			15	*A-1300-168-A	D BOARD, COMPLET	E
6	+4-206-106-61	BRACKET, MAIN		16	*4-093-898-01	BRACKET, H	
7	*A-1300-173-A	G BOARD, COMPLETE		17	4-058-870-01	SCREW +BVTP 3x16	TYPE 2 IT-3
8	1-424-855-11	COIL, CHOKE 29MMH		18	1-529-408-11	SPEAKER (4.2x24C	M)
9	8-598-535-20	FRONTEND BTF-EF411 (	KV-28FQ70B)	19	*A-1603-084-A	WOOFER COMPLETE	ASSY 20-21
	8-598-533-10	FRONTEND BTF-EC411 (	KV-28FQ70E)	20	1-529-417-11	SPEAKER (8CM)	
	8-598-529-10	FRONTEND BTF-EU611 (	KV-28FQ70U)	21	7-685-663-71	SCREW +BVTP 4x16	TYPE 2 IT-3
10	*A-1404-964-A	M2 BOARD, COMPLETE		22	*4-093-829-01	REAR COVER	
11	*A-1300-358-A		V-28FQ70B)	23	7-685-648-79	SCREW (4x16), W(	(+) P TAPPING
				1			

UK Models

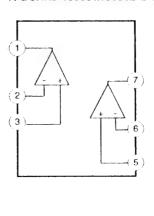
### A BOARD IC2000 MSP3411G



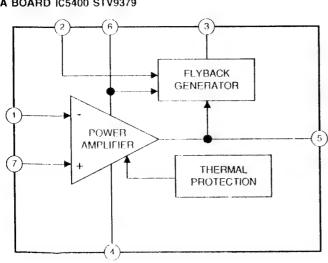
### G BOARD IC6003 SE135N-LF4



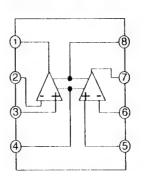
### A BOARD IC5301/IC5302 LA6393DLL



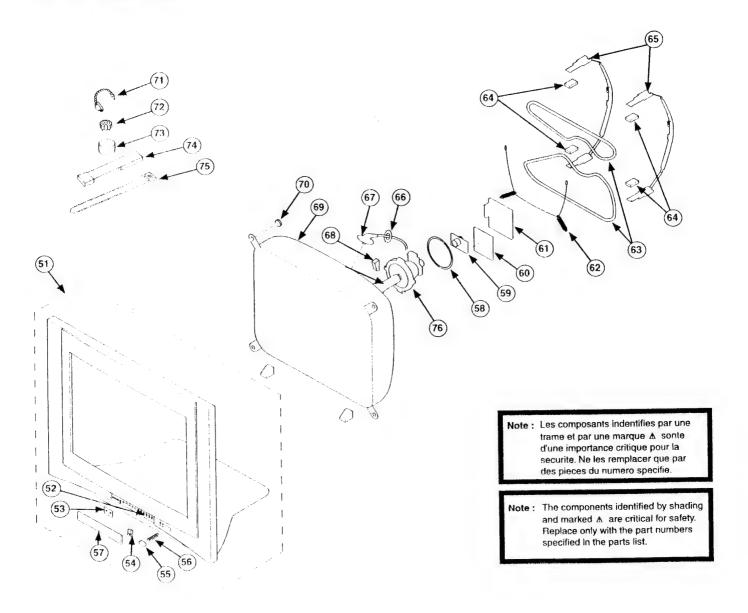
### A BOARD IC5400 STV9379



### A BOARD IC5300 LM358N



### 6-2. PICTURE TUBE



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
51	*X-4041-353-1	BEZNET ASSY	52-57	64	4-203-390-11	CUSHION, DGC	
52	*4-087-533-01	MULTIBUTTON		65	*4-204-812-02	HOLDER, DGC	
53	4-087-530-01	GUIDE, LIGHT		66	*4-203-022-01	HOLDER, HV	The second secon
54	4-093-900-01	SPRING, DOOR		67 A	1-251-946-21	CAP ASSY, HIGH-VOL	TAGE
55	4-087-527-01	POWER BUTTON		68	3-704-495-01	SPACER, DY	
56	4-204-426-01	SPRING		69 A	8-735-099-05	PICTURE TUBE (W66L	LX060X)
	4-093-827-01	DOOR		70	4-046-765-12	SCREW, TAPPING 7+C	
57	* ***			71	4-308-870-00	CLIP, LEAD WIRE	
58	1-419-363-11	COIL, NA ROTATION	2012/2019	72	1-452-094-00	MAGNET, ROTATABLE	DISK: 15MM
59	△ 8-453-011-11	NECK ASSY, (NA299-M)	to the second			·	
60	*A-1300-627-A	VM BOARD, COMPLETE		73	1-452-032-00	MAGNET, DISK; 10MM	
61	*A-1302-133-A	C BOARD, COMPLETE		74	X-4387-214-1	PERMALLOY ASSY, CO	RRECTION
62	4-369-318-21			75	3-701-007-00	BAND, BINDING	
63	1 104 006 11	COIL, DEGAUSSING	- was Manifestal in the property of	76 A	8-451-521-31	DEFLECTION YOKE (Y	28RVC3-L2)
0.3	₩ 1-454-990-11	COIN, DEGROSSING		1	CHARLEST TO THE TOTAL TO		

# SECTION 7 ELECTRICAL PARTS LIST

### PARTS LISTING TABLE OF CONTENTS

	<u> </u>	ag
G BOARD COMPLETE Parts List :		56
D BOARD COMPLETE Parts List :		57
D2 BOARD COMPLETE Parts List	l:	ô0
A BOARD COMMON Parts List :	Parts common to all models in this manual	62
A BOARD VARIANT Parts List :	Parts that belong only to the model specified	
Model		
(KV-28FQ70B)		71
(KV-28FQ70E):		71
(KV-28FQ70U):		71
C BOARD COMPLETE Parts List :		71
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MISCELLANEOUS :		77
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Note: Refer to the designated variant parts list when seeking a part indicated by an asterisk (\*)
Parts indicated (XX) on the Schematic Diagram are not used in this model and
therefore do not appear in the Parts List.

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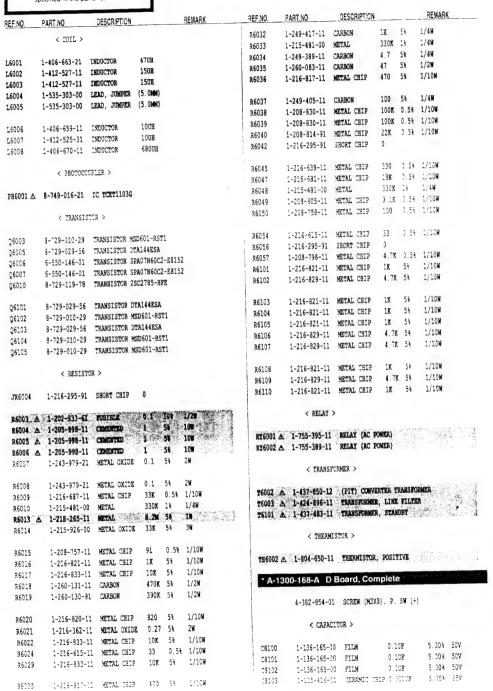
Note: The components identified by shading and marked ∆ are critical for safety. Replace only with the part numbers specified in the parts sist.

16106 1-106-964-11 ELECT 1007 10.09% 50V

G

	specified in the pa	arts ist.								
REF.NO.	PART.NO	DESCRIPTION		REN	IARK	REF.NO.	PART.NO	DESCRIPTION		REMARK
* A-13	00-173-A G E	Board, Com	plete = ==	. 5.6			< CONNECT	or >		
		SCREW (MGX8)				G/F/II	1 C 1 C 11 S 14	2.75		
	4-382-854-01	SCREW (M3X8)	, P, SM (+)							
	< CAPACIT	for >					6 1-691-960-11			KB
				an 1874 by 1 (10) 118	· . · · · · · · · · · · · · · · · · · ·	ON6005	* 1-817-037-61	PLUG, CONNEC	FOR 6P	
	1-137-999-11	with a few of the control of the con	P 30		ぜつ マジャ ま		- 1 254 215 11	DETTO COMMO	BOD 12D	
	1-137-999-11	TIM	0.10F 1000PF	10.00	2757	EN6006	* 1-564-516-11	PLUG, CONNECT PLUG, CONNECT		
	1-119-899-51		1000PF	10.00%		ZN6010	1-564-511-11	PLUG, CONNEC		
6005	1-126-965-91	ELECT	225F	20.00%						
	,,,,						< 01002	,		
6006	1-117-753-11	ELECT (BLOCK)	4700F	20.00%	450V					
5007	1-126-964-11	ELECT	1009	20.00%	30V	06001		DIODE GSIB46		
6008	1-125-963-11	ELECT	4.77 <b>5</b>	20.00%		06002	3-719-982-16	DIODE MT2J-3:		
6010	1-136-165-00	FILM	0.108	5.00%		06004		DIODE DF4005		
5011	1-162-964-11	CERAMIC CHIP	0.301 <b>0F</b>	10.00%	50V	26006	3-719-081-37	DIODE MMD191		
en4n 's	The sad matches	AND LOTA	A AATEHR	10 006	Owne	36007	9-/13-091-3/	DIODE MMDL91	£11	
	1-104-571-91	Action to the same of the			4.0 50	26008	8-719-063-70	DIODE DINL20	7	
6014	many of the part of the	ELECT (BLOCK)	Of select the feet of	20%	250V	36009	8-719-110-41			
6015	1-115-339-11	CERAMIC CHIP		10.00%		06010		DIODE FBIUAD		
	1-104-571-91		0.001507	10.003	100 A 000 A 18	D6011		DIODE S3L40F		
	= m pu paga risawaw		a Patricia Paratro (1986), 4	birne iya	Petting 2 4 1 2 1 24 24	⊃6012	3-719-033-12	DIODE S3L40F		
6017 Z	1-104-571-91	CERANIC	0.0015UF	10.00%	2KV					
5018	1-126-949-11	ELECT	22007	20.00%	35 <b>V</b>	D6016		DIODE 048886		
6020	1-135-946-22		47000PF	3%	800V	D6031		DIODE EK19-V		
6021	1-164-645-11	CERAMIC	10002F	10.00%		06032		DICOE EX19-V		
6022	1-126-963-11	ELECT	4.702	20.00%	50V	D6033	8-719-022-97 8-719-022-97			
6023	1-110-626-11	77 7 7 m	330UF	20.00%	1600	1 20034	0-719-022-97	DIOUS DESAME		
5024	1-164-625-11		680PF	10.00%		06035	1-535-303-00	LEAD, JUMPER	(5.0194)	
6025	1-164-625-11		680PF	10.00%		D6036	1-216-295-91		0	
5026	1-164-625-11		680PF	10.00%		D6101	8-719-081-97	DIODE MMDL91	4T1	
5027	1-164-625-11		680PF	10.30%	500V	D6102	8-719-511-40	DIODE SIVE40		
						D6103	9-719-081-97	DIODE HADL91	4T1	
6028	1-128-548-11	ELECT	4700UF	20.00%	25V	1				
6029	1-126-939-11		100000E	20.009	_	06104	3-719-081-97			
6030	1-119-940-51		4700UF	20.00%	50 <b>V</b>	06105	8-719-081-97	DIODE MADL91		
6031	1-535-143-71 1-113-927-11	LEAD, JUMPER		THE 18 18	ozm.	26106 26107	8-719-081-97 8-719-081-97			
0032 2	7 1-113-321-11	COMME	0.0102		Section 1	26101	0-713-001-37	OTONE BENTAL	122	
6033	1-162-964-11	CERAMIC CHI	0.001UF	10.009	50V		< FERRITI	E BEAD >		
6034	1-162-968-11			10.009						
6035	1-136-165-00	FILM	0.10F	5.00%	50 <b>V</b>	FB6001	1-410-397-21	FERRITE	1.108	
6036	1-136-479-11	FILM	0.301UF	5.00%	100V	FB6002	1-410-397-21	FERRITE	1.108	
6037	1-126-947-11	ELECT	470F	20.004	35V	FB6003	1-410-397-21	FERRITE	1.10#	
						FB6004	1-410-397-21		1.108	
6038	1-164-645-11		1000PF	10.009		FB6005	1-535-303-00	LEAD, JUMPER	(5.3MM)	
6039		CERAMIC CHI		10.004		20/20/	1 525 202 20	tosa mamon	/E 314()	
5040		CERAMIC CHI		10.009		FB6006	1-535-303-00	LEAD, JUMPER	(3.0 <b>mm</b> )	
6045	1-115-339-11		22000F	20.00		i	< IC >			
0102	1-140-343-11	20001	220008	20.00			1 20 /			
16103	1-126-971-11	ELECT	4700F	20.00	9 50V	106001	3-759-670-30	IC MCZ3001D		
16105	1-126-964-11		1305	20, 38		106003		IC 3E135N-13	4	
10110	1.174.544.11	77 7/2 <b>4</b>	+ 1009	15.10						





	REF.NO.	PART.NO	DESCRIPTION		REM	ARK	REF.NO.	PARTINO	DESCRIPTION	ł	REM	ARK
	09104	1-115-416-11	CEDANTO CETE	0.00178	5 103	250	29231	1-102-228-10	CERANTO	470PF	10.00%	500V
						1						
CREATE   1-124-447-11   CREATE   470F   20.000   35V   CREATE   1-102-224-00   CREATE   470F   10.000   500V						1						
California   Cal	C8109	1-126-947-11	ELECT	470 <b>P</b>	20.00%	35V	C8835	1-102-228-00	CERANIC	470PP	10.00%	500 <b>V</b>
	C8112	1-164-227-11	CERAMIC CHIP	0.02209	10.00%	25V	C8836					
	C8113	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V	C8341	1-126-947-11	ELECT	470F	20.00%	35V
	C3114	1-126-964-11	ELECT	10UF	20.00%	50V	C3844	1-115-513-21	FILM	0.18UF	5.00%	250V
1-115-416-11		1-162-962-11	CERAMIC CHIP	470PF	10.00%	50V	C8360	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50 <b>V</b>
		1-115-416-11	CERAMIC CHIP	0.001UF	5.00%	25 <b>V</b>	23361	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50 <b>V</b>
	45117	1_115_116_11	בדטר מדשופקים	3 00100	3 103	150		C 20077 277	`# >			
1-107-326-11   CHANNEC DEF 2 10F   10.009 SOV									,			
Second   -125-581-11   DERAMIC DEED 0.470F   10.004 DV							mrc ( 10	a 1 215 225 25	or to comme	מה מחד		
2015												
NSSIS   1-155-16-11   TERMIC CBIP   0.001   FOV	C8124	1-125-891-11										
C3105	03125	1-162-968-11	DERAMIC CHIP	0.3047UF	10.30%	50V					(ARD)	
1-152-368-11							CN8612	* 1-316-379-51	PLUG, CONNEC	TOR 3P		
CS120	C3126	1-165-176-11	CERAMIC CHIP	0.047UF	10.00€	167	CN8614	* 1-564-508-11	PLUG. CONNEC	TOR SP		
CS120		1-162-968-11	CERAMIC CHIP	0.00470F	10.00%	50V						
C8131   1-126-964-11   ELECT   100F   20.00% 50V   C8820   1-164-333-11   2TM, CEMBERCRER(PS) (V TYER) 10P					5.00%	50V	CN8616	1-695-915-11	TAB   CONTACT	}		
CRIST   1-164-230-11		-									PE) 10P	
C8134   1-102-935-00   CERAMIC   27F   0.259F 50V											,	
C9135   1-126-946-11   ELECT   100F   20.008 50V   20.	50132	7-104-570-11	CERAMIC COIP	22388	3.009	201	CHOOLA	7 204 210 12	thou, comisc	208 72		
C9106   1-126-964-11   SECT   COUT   20.008 50V   D8102   3-719-081-37   DIODE MeDISIATI	C8134	1-102-935-00	CERAMIC	228	0.25PF	50V		< DIODE >				
C8136	C8135	1-126-964-11	ELECT	100F	20.00%	50V						
C3209   1-164-915-11   CERAMIC CBIP 470PF   5 00% 50V   D8103   3-119-081-97   DIODE MADL914T1		1-126-964-11	SLECT	10UF	20.00%	50V	D8102	3-719-081-97	DIODE NATDL91	471		
C8210   1-162-964-11   CERANIC CBIP   1.0010F   10.004 50V   D8105   5-19-081-97   D100E MADL91471   D8005   5-19-081-97   D100E MADL91471   D8005   5-19-081-97   D100E MADL91471   D8005   D8107   3-19-081-97   D100E MADL91471   D8005   D8002   1-126-960-11   ELECT   10F   20.004 50V   D8108   3-19-081-97   D100E MADL91471   D8005   D8108   D8108   D8108   D8109   D8108   D8109   D8108   D8109   D8108   D8109   D8108   D8109   D8108   D8109   D8109						i						
C3801												
C3801	00210	1-127-304-71	CANADA CALE	3.30132	10.005	304						
C8802				1700	20.000	200						
C8803							08101	3-113-081-97	DIODE MEDIA:	411		
C8804	C8802											
C8805   1-102-114-00   CERAMIC   470FF   10.00% 500V   D8132   3-719-081-97   DIODE MMD1914T1	C8803											
C8808   1-102-330-30   CERAMIC   330FF   10.00% 500V   D8139   3-719-081-97   DIODE MADL914T1	C8804	1-102-114-00	CERAMIC	470PF	10.00%	50 <b>V</b>						
CBB09	C8905	1-102-114-00	CERAMIC	470PF	10.00%	50 <b>V</b>	08132					
C3809   1-102-030-00   CERANIC   230PF   10.00% 500V   C8810   1-107-368-11   MYLAR   0.047UF   10.00% 200V   D8611   3-719-081-97   DIODE MMDL914T1   C8811   1-107-368-11   MYLAR   0.047UF   10.00% 200V   D8612   3-719-081-97   DIODE MMDL914T1   C8812   1-162-131-11   CERANIC   220PF   10.00% 2KV   D8803   3-719-00-22   DIODE 102-2   D00E 102-2   D8804   1-117-641-11   PYLM   7500PF   3.00% 1.2KV   D8806   3-719-90-35   DIODE EDIZ   C8814   1-117-641-11   PYLM   6800PF   3.00% 1.2KV   D8806   3-719-910-35   DIODE EDIZ   C8815   1-162-964-11   CERANIC   CER							08133	3-719-081-97	DICOE MEDL9:	471		
CSS10	C8808	1-102-030-00	CERAMIC	330PF	10.00%	500 <b>V</b>	08199	3-719-081-97	DIODE MADL91	4Tl		
C8810	G8809	1-102-030-00	CERAMIC	330PF	10.00%	500V						
C8811 1-107-368-11 MYLAR 3.347UF 10.00% 200V D8612 3-719-081-97 DIODE MMDL314T1  C8812 1-162-131-11 CERAMIC 220FF 10.00% 2KV D8803 3-719-200-32 DIODE 13E-2  D8803 3-719-200-32 DIODE 13E-2  D8803 3-719-302-43 DIODE ELIZ  D8805 3-719-302-43 DIODE ELIZ  C8814 1-117-431-11 FILM 7500PF 3.00% 1.2KV D8805 3-719-979-35 DIODE SGP20G  C8814 1-117-436-11 FILM 6800PF 3.00% 1.5KV D8807 3-719-510-73 DIODE SGR200F4  C3815 1-117-336-11 FILM 580PF 3.00% 1.5KV D8801 3-719-510-73 DIODE SGR200F4  C3817 1-125-893-11 FILM 580PF 3.00% 1.5KV D8811 3-719-110-41 DIODE SGR200F4  C8813 1-125-893-11 FILM 580PF 3.00% 1.5KV D8811 3-719-109-39 DIODE SGR20F4  C8813 1-125-893-11 FILM 580PF 3.00% 1.5KV D8819 3-719-050-38 DIODE MMMA152WK-P1  C8819 1-125-893-11 FILM 580PF 3.00% 1.5KV D8820 5-719-091-37 DIODE MMMA152WK-P1  C8824 1-107-346-11 FILM 0.10P 5.00% 400V D8859 3-719-010-37 DIODE MMDL914T1  C8825 1-117-663-11 FILM 0.22UF 5.00% 250V D8860 3-719-110-41 DIODE SGR20F4  C8826 1-115-520-11 FILM 0.68UF 5.00% 250V D8860 3-719-110-41 DIODE SGR20F4  C8827 1-107-346-11 FILM 0.02UF 5.00% 250V D8860 3-719-110-41 DIODE SGR20F4  C8828 1-127-681-11 FILM 0.000PF 2% 100V FB8307 1-410-397-21 FERRITE 1.108  C8828 1-127-683-11 FILM 0.000PF 2% 100V FB8307 1-410-397-21 FERRITE 1.108				0.04707	10 00%	200V	08611	3-719-081-97	DIODE MMDL91	4T1		
C8812   1-162-131-11   CERAMIC   220PF   10.00% 2KV   D8803   3-719-200-32   D10DE 13E-2							08612	3-719-081-97	DIODE MADE 31	471		
C8813 1-162-134-11 CERAMIC 470FF 10.00% 2RV D8806 3-719-302-43 DIODE ELLE C8814 1-117-641-11 FILM 7500FF 3.00% 1.5RV D8806 3-719-979-85 DIODE EGP20G C8814 1-117-641-11 FILM 6800FF 3.00% 1.5RV D8808 3-719-510-73 DIODE S3L200F4 C8815 1-125-893-11 FILM 580FF 3.00% 1.5RV D8808 3-719-510-73 DIODE S3L200F4 C8816 1-162-964-11 CERAMIC CRIP J.001UF 10.00% 50V D8808 3-719-510-73 DIODE S3L200F4 C8817 1-125-893-11 FILM 580FF 3.00% 1.5RV D8811 3-719-110-41 DIODE RD152582 C8813 1-125-893-11 FILM 580FF 3.00% 1.5RV D8819 3-719-050-33 DIODE MLMAL52WK-T1 C8820 1-125-893-11 FILM 580FF 3.00% 1.5RV D8819 3-719-050-33 DIODE MLMAL52WK-T1 C8824 1-107-346-11 FILM 580FF 3.00% 1.5RV D8820 3-719-081-37 DIODE MLMAL52WK-T1 C8825 1-117-663-11 FILM 5.00F 5.00% 400V D8859 3-719-081-37 DIODE MLMAL52WK-T1 C8826 1-115-520-11 FILM 0.02UF 5.00% 250V D8860 3-719-110-41 DIODE RD152582  C8827 1-107-346-11 FILM 0.000FF 5.00% 400V D8859 3-719-110-41 DIODE RD152582  C8828 1-127-63-11 FILM 0.000FF 5.00% 400V D8859 3-719-081-37 DIODE MLMAL52WK-T1 C8827 1-107-346-11 FILM 0.000FF 5.00% 400V D8859 3-719-110-41 DIODE RD152582  C8828 1-127-63-11 FILM 0.000FF 2% 100V FB8907 1-410-397-21 FERRITE 1.108												
C8813   1-162-134-11   CERAMIC   470FF   10.008 2KV   D8806   3-719-979-35   DIODE 2GP20G	00012	1-102-131-11	CEMPTIC	22022	10.005	ZII.						
C8814 1-117-841-11 FILM 7500PF 3.00% 1.2KV C8815 1-117-836-11 FILM 6800PF 3.00% 1.5KV D8807 8-719-510-73 DIODE S3L20UF4 C8816 1-162-964-11 CERAMIC CRIP 0.001UF 10.00% 50V D8808 8-719-510-73 DIODE S3L20UF4 C8817 1-125-993-11 FILM 580PF 3.00% 1.5KV D8811 3-719-110-41 DIODE R0152B2 C8818 1-125-993-11 FILM 580PF 3.00% 1.5KV D8819 3-719-050-33 DIODE R05.5EB2 C8819 1-125-993-11 FILM 580PF 3.00% 1.5KV D8819 3-719-050-33 DIODE R05.5EB2 C8820 1-125-993-11 FILM 580PF 3.00% 1.5KV C8820 1-125-993-11 FILM 580PF 3.00% 1.5KV C8824 1-107-346-11 FILM 5.1UP 5.00% 400V D8859 3-719-081-37 DIODE MMDL914T1 C8825 1-117-663-11 FILM 0.2UPF 5.00% 400V D8859 3-719-110-41 DIODE R0152B2  C8826 1-115-520-11 FILM 0.68UF 5.00% 250V D8860 3-719-110-41 DIODE R0152B2  C8826 1-127-481-11 FILM 0.1UPF 5.00% 400V C8827 1-107-346-11 FILM 0.000PF 2% 100V F88307 1-410-397-21 FERRITS 1.1UB C8828 1-127-481-11 FILM 0.000PF 2% 100V F88307 1-410-397-21 FERRITS 1.1UB		1 152 124 11	OWN 11/7/2	17000	10 002	Own						
C8815   1-117-336-11   FILM   S800FF   3.00%   1.5KV   D8807   3-719-510-73   DIODE S3L200F4							10000	0-112-212-23	DIOUS SUPEN	,		
C3816   1-162-864-11   CERAMIC CRIP   1.0010F   10.00% 50V   D3808   3-719-510-73   DIODE S3L20074												
C3817   1-125-93-11   FILM												
C8813   1-125-893-11   FILM   680PF   3.003   1.5KV   D8819   3-719-09-39   DIODE RD5.6ZSB2							r					
C8813   1-125-893-11   FILM   FROPE   3.00%   1.5KV   D8819   3-719-050-38   DIODE MIMALSZWK-P1	C3817	1-125-893-11	FILM	580PF	3.00%	1.5KV	D8811	3-719-110-41	DIODE RD15ES	B2		
C8819 1-125-893-11 FILM 580PF 3.008 1.5KV C8820 1-125-893-11 FILM 680PF 3.008 1.5KV C8824 1-107-346-11 FILM 0.10P 5.008 400V C8825 1-117-663-11 FILM 0.2UF 5.008 250V C8826 1-115-520-11 FILM 0.680F 5.008 250V C8826 1-115-520-11 FILM 0.680F 5.008 250V C8827 1-107-346-11 FILM 0.10P 5.008 250V C8828 1-125-820-11 FILM 0.000F 5.008 250V C8828 1-125-820-11 FILM 0.10P 5.008 250V C8828 1-125-820-11 FILM 0.10P 5.008 250V C8828 1-127-681-11 FILM 0.10P 5.008 400V C8828 1-127-681-11 FILM 0.000PF 2% 1.00V C8828 1-127-681-11 FILM 1.0000PF 2% 1.00V C8828 1-127-681-11 FILM 1.0000PF 2% 1.00V C8828 1-127-681-11 FILM 1.0000PF 2% 1.00V C8829 1-127-680-11 FILM 1.0000PF 2% 1.00V C8829 1-127-680-11 FILM 1.0000PF 2% 1.00V							08918	3-719-109-39	DIODE RD5.61	SB2		
C8820   1-125-893-11   FILM   S80PF   3.003   1.5KV   D8820   5-719-081-97   DIODE MEDL914T1	C3813	1-125-893-11	FILM	580PF	3.00%	1.5KV	D8819	3-719-050-38	DIODE MIMAL	2WK-T1		
C8820   1-125-893-11   FILM   S80PF   3.003   1.5KV   D8820   5-719-081-97   DIODE MEDL914T1	08819	1-125-893-11	FILM	580PF	3.00%	1.5KV						
C8824 1-107-346-11 FILM 0.10F 5.008 400V D8859 3-719-081-97 DIODE MADD1914T1 C8825 1-117-663-11 FILM 0.22UF 5.008 250V D8860 3-719-110-41 DIODE RD15ESB2  C8826 1-115-520-11 FILM 0.10F 5.008 250V < FERRITE BEAD >  C8827 1-107-346-11 FILM 0.10F 5.008 400V C3827 1-107-346-11 FILM 0.000FF 2% 100V FB8307 1-410-397-21 FERRITE 1.10B  19829 1-127-630-11 FILM 4700FF 2% 100V							03820	3-719-081-37	DICOE MODIS	411		
C8825 1-117-663-11 FILM 0.22UF 5.00% 250V D8860 3-719-110-41 DIODE RDISESB2  C8826 1-115-520-11 FILM 0.68UF 5.00% 250V < FERRITE SEAD >  C8827 1-107-346-11 FILM 0.1UF 5.00% 400V  C3823 1-127-681-11 FILM 10000FF 2% 100V FE8807 1-410-397-21 FERRITE 1.1UE  13829 1-127-630-11 FILM 4700FF 2% 100V							Į.					
03827   1-107-546-11   FILM   0.10F   5.00%   400V												
03827   1-107-546-11   FILM   0.10F   5.00%   400V												
23823 [-127-681-1] FILM 10000FF 2% 100V FB8307 [-410-397-2] FERRITE 1.10H 13829 [-127-680-1] FILM 4700FF 2% 100V							:	< FERRITE	BEAD >			
18829 1-127-630-11 FILM 1700PF 2% 100V	03827	1-107-346-11	SITM	0.1 <b>0F</b>	5.00%	400V	ì					
	03828	1-127-681-11	KLIT	10000PF	23	100A	FB8807	1-410-397-21	FERRITE	1.1UH		
19930   14-107-9554-11 ELECT   \$700 10 009 250V	13829	1-127-630-11	FILM	170028	23	1007						
	19930	1-107-688-01	11101	1777	20 009	F 1967						





REF.NO.	PART.NO	DESCRIPTION REMA	RK REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	¥		REMARK	REF.NO.	PARTINO	DESCRIPTION			REMARK
	< IC >		Q8806	8-729-047-59	TRANSISTOR STP5NB40FP		R8149	1-216-837-11	METAL CHIP	22K	5%	1/10%	28808	1-260-340-11	CARBON	10 <b>K</b> 5	8 3	L/2W
	1 20 7		Q8807	8-729-421-19	TRANSISTOR UN2213		R8150	1-216-837-11	METAL CHIP	22K	5%	1/10W	R8809	1-260-340-11	CARBON	10K 5	8 1	1/29
IC8100	8-759-659-67	IC LA6393DLL	Q8822	8-729-010-29	TRANSISTOR MSD601-RST1		R8153	1-216-295-91	SHORT CHIP	0			R8810	1-215-896-00	METAL OXIDE	4.7K 5	1 2	N .
IC8101	8-759-659-67		Q8823	8-729-424-08	TRANSISTOR UN2111		R8154	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R8811	1-215-896-00	METAL OXIDE	4.7K 5	1 2	Ŧ
C8102		IC NJMB404AD-W	-				R8155	1-208-798-11		4.7K		1/10W	R8812	1-215-896-00	METAL OXIDE	4.7K 5	§ 2	Ж
C8103	8-759-659-67			< RESISTO	R >													
	3 -33 - 43 - 4						R8158	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W	36813	1-215-895-11	METAL OXIDE	3.3K 5	8 2	W.
	< COIL >		R8100	1-216-813-11	METAL CHIP 220 5%	1/10W	28159	1-208-790-11					33814	1-215-880-00	METAL OXIDE	10 5	1 2	Я
	( 0014 )		R8101	1-216-813-11	METAL CHIP 220 58	1/10W	38160	1-216-295-91		0			38815		METAL OXIDE		3 2	.W
3801	1-410-397-21	FERRITE 1.10H	R8102		METAL CHIP 2.2K 5%		38151	1-208-302-11			9.5%	1/10W	33816		METAL DXIDE			
8302	1-410-397-21		R8103		METAL CHIP 2.2K 5%		38152	1-216-321-11		1K			38817		METAL CXIDE			
1903	1-410-397-21		R8104		METAL CHIP 2.2K 5%		1.02.04			***	•	2. 20						
1013	1-413-331-21	1200112	11000				R8163	1-216-833-11	WETAT TITO	10K	= 1	17109	88818	1-249-405-11	CARBON	100 5	, .	:4¥
	< INDUCTO	3 \	R8105	1-216-921-11	METAL CHIP 1K 53	1/10W	R8164	1-213-314-31		22K			36819	1-247-807-31		100 3		
	/ IND0010		38106		METAL CHIP 2.2K 5%		R8165	1-103-330-11				1/10W	28931	1-260-124-11		120K 3		
8301	1-406-985-11	INDUCTOR 2.2MB	R8107		METAL CHIP 2.7K 3.59		38168	1-116-329-11		4.7K			32833	1-202-972-61		1 5		
10001	7-400-303-77	. NEOCLOR 2.2M	R8108		METAL CHIP 2. "K ).5		R9169	1-209-330-11		100K			28834	1-250-288-11		9.47 5		
	· whattere	BC3 >	R8109		METAL CEIP 22K 0.59		72733	1-200-330-11	MEINE JELF	100%	4.45	1/104		250-25G-11		2.3: -	, .	, 10
	< TRANSIS	-JR /	20203	. 200 721 71		-,	R8170	1.012.315.11	Memar core	330	51	1/10W	38835	1-250-288-11	CADRON	0.47 5	s 1	10 <b>9</b>
1100	3 300 340 30	TRANSISTOR MSD601-RST1	R8110	1-208-214-01	METAL CHIP 22K 0.5	1/10W		1-216-815-11				1/10W	R8842	1-260-328-11		1K 5		/2W
100			R8111		METAL CHIP 2.2K 5%		28171	1-216-825-11					4			27K 5		/10W
101		TRANSISTOR MSD601-RST1		1-216-825-11			R8174	1-216-337-11		22K		1/10W	R8844	1-216-838-11				
3102		TRANSISTOR MSD601-RST1	R8112				R8175	1-216-329-11			38	1/10₩	R8945	1-216-933-11		10K 5		/10W
8103		TRANSISTOR MSD601-RST1	R8113		METAL CHIP 10K 5%		R8176	1-216-864-11	SHORT CHIP	0			R8865	1-216-829-11	METAL CHIP	4./X >	8 1	/10W
104	8-729-010-29	TRANSISTOR MSD601-RST1	R8114	1-216-833-11	METAL CHIP 10K 5%	1/10#							1					
						. /	R8177	1-216-830-11				1/10W	38866	1-216-295-91		0		
105		TRANSISTOR MSD601-RST1	R8115		METAL CHIP 100K 5%		R8179	1-216-329-11				1/10W	. 38867	1-216-829-11		4.7K 5		
106	3-729-010-29	TRANSISTOR MSD601-RST1	R8116	1-216-845-11			R8130	1-215-325-11	METAL CHIP	2.21	5%	1/10W	R8885	1-208-854-11	METAL CHIP	EM 0		
107	3-729-010-29	TRANSISTOR MSD601-RST1	R8117	1-216-833-11			R8191	1-216-295-91	SHORT CHIP	0			R8886	1-208-834-11	METAL CHIP	150 <b>K</b> 0	.5% 1	/10W
108	8-729-010-05	TRANSISTOR MSB709-RT1	R8118	1-216-833-11		1/10W	R8132	1-215-841-11	METAL CHIP	47K	59	1/10W	38387	1-216-841-11	METAL CHIP	47K 5	1	/10W
110	8-729-010-05	TRANSISTOR MSB709-RT1	R8119	1-216-933-11	METAL CHIP 10K 5%	1/10W												
							R8183	1-215-825-11	METAL CHIP	2.2K	5%	1/10W	R8888	1-249-441-11	CARBON	100K 5	1	/4¥
112	8-729-010-29	TRANSISTOR MSD601-RST1	R8120	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R8186	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	28895	1-249-443-11	CARBON	0.47 5	1	/411
113	9-729-010-29	TRANSISTOR MSD601-RST1	R8121	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	28188	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R8896	1-249-443-11	CARBON	0.47 5	1	/4W
115	8-729-010-05	TRANSISTOR MSB709-RT1	R8122	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R8189	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	38897	1-215-485-00	METAL	470K 1	1	/4%
118	9-729-010-29	TRANSISTOR MSD601-RST1	R8123	1-216-841-11	METAL CHIP 47K 5%	1/10W	R8190	1-215-325-11	METAL CHIP	2.2K	5%	1/10W	38898	1-215-493-00	METAL	1M 1	1	/4W
119	3-729-010-05	TRANSISTOR MSB709-RT1	R8124	1-216-921-11	METAL CHIP 1K 5%	1/10W												
							R8191	1-215-925-11	METAL OXIDE	22K	5%	3₩	33999	1-215-493-00	METAL	18 1	8 1	/4W
120	3-729-010-05	TRANSISTOR MSB709-RT1	R8125	1-216-825-11	METAL CHIP 2.2K 5%	1/10%	R8196	1-249-377-11		0.47		1/49						
122	8-129-010-05	TRANSISTOR MSB709-RT1	R8126	1-216-815-11	METAL CHIP 330 5%	1/19W	R8197	1-216-841-11		47K				< TRANSFO	RMER >			
123		TRANSISTOR MSB709-RT1	R8127	1-208-798-11	METAL CRIP 4.7K 0.5	1/10W	R8203	1-218-867-11		6.9K			į					
125		TRANSISTOR MSD601-RST1	R8128	1-208-822-11	METAL CHIP 47K 0.5	1/10W	R8209	1-216-295-91		0		-,	T3801	1-437-430-11	TRANSFORMER,	FERRITE	(TOR)	
125		TRANSISTOR MSB709-RT1	R8129	1-208-822-11	METAL CHIP 47K 0.5	1/10W	1,0203	/1	onone care	•			T8802		TRANSFORMER,			
							R8210	1-216-925-11	METAL CHIP	2 2K	58	1/10#	79806		TRANSFORMER,			<b>ਮਾ</b> ਦ
127	3-729-010-05	TRANSISTOR MSB709-RT1	R8130	1-208-846-11	METAL CHIP 470K 0.5	1/10W	R8211	1-216-833-11		10K		1/100			***************************************	201120112		•••
128		TRANSISTOR MSD601-RST1	R8131	1-216-815-11			R8212		METAL CHIP				• A-130	00-530-A D2	Board, Com	plete :		
132		TRANSISTOR UN2213	R8132		METAL CHIP 330 5%		R8215							, , , , , , , , , , , , , , , , , , ,	Dodina, Com	p.0.0		
135		TRANSISTOR MSD601-RST1	R8133		METAL CHIP 330 5%		R8215	1-208-814-91		22K				3_710_579_01	COVER, VOLUM	e suntin		
3136		TRANSISTOR MSB709-RT1	R8136		METAL CHIP 47K 0.5		85215	1-100-041-11	METAL CHIP	4 / A	25	1/10#	i		SCREW (M3X8)			
17.0	323-010-03	TRANSISTOR HOB/09-RII	70230	1 230 322 11		,	*****			100	=0	1/100		4-302-334-01	SCUEN (MINO)	, 2, 34 (	* )	
11.77	3 700 010 00	TRANSISTOR MSD601-RST1	R8137	1_209_922_11	METAL CHIP 47K 0.5	1/109	R8217	1-216-833-11		10K		1/10W	1	< G1 D1 G1	non .			
3137			R8138				R8456	1-216-845-11		100K		•		< CAPACI	TOR >			
201		TRANSISTOR MSD601-RST1	1		METAL CHIP 47K 0.5		R8457		METAL CHIP					1 100 100	VALUE N.D.	A 11		003 500
202		TRANSISTOR MSD601-RST1	R8139		METAL CHIP 47K 0.5		R8458		METAL CHIP				05302	1-130-483-00		0.010F		.00% 50V
455		TRANSISTOR MSD601-RST1	R8140		METAL CHIP 2.2K 5%		R8459	1-216-925-11	METAL CHIP	2.2K	5%	1/10W	35803		CERAMIC CHIP			0.00% 16V
301	3-729-048-47	TRANSISTOR 2SC2688(5)-LK	R8141	1-208-514-11	METAL CHIP 22K 0.5	5 1/1UW							36804	1-136-813-11		580PF		.00% 100V
						1 / 1 / 2 / 2 **	R9800	1-147-395-91				1/4W	. 26805	1-126-964-11		193F		0.00% 50V
302		TRANSISTOR 2SC2688(5)-LX	R8142		METAL CHIP 7 ER 3.5		38804	1-149-408-11	CARBON	190	53	1/4%	06806	1-128-551-11	ELECT	225 <b>P</b>	20	).30% 6 <b>3V</b>
903		TRANSISTOR 2SC5698-SONY-CA	R8143		METAL CHIP 2 LK 33		38905	1-149-408-11	CARBON	130	34	1/4%						
8804	F-729-056-17	TRANSISTOR 2805696-80NY-CA	R8145		MELNY CHIB C 1K 2F		38806	1-149-411-11	CARBON	330	53	1/49	16807	1-130-435-00		).17 <b>7</b>		00% - 50V
3505		TRANSISTOR IRF614-005	38146		METAL THIP 2 OK 0 S	1 1 0 19			CARBON			1.4%	15808	1-125-347-11		1777		1 004 057

- 59 -

.50.

Note: The components identified by shading and marked A are critical for safety. Replace only with the part humbers specified in the parts list.

D2	A
72	

REF NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION			REMARK	REF.NO.	PART.NO	DESCRIPTION		REMARK	
			10 300 501	D6811	9_719_911_19	DIODE ISS119	-25						* / 1.04	86875	1-216-962-11	METAL CHIP	2 3M 5	1/10W	
C6809		CERAMIC CHIP 0.0022			8-719-911-19			R6801		METAL CHIP			1/10W				470K 1		
C6810	1-162-115-00		10.00% 1KV	D6813				R6802	1-216-849-11		220K		1/10W	R6876	1-215-485-00			-,	
C6811	1-162-115-00	CERAMIC 330PF	10.00% 1KV	D6814	8-719-982-21			R6803	1-216-829-11		4.7K		1/10₩	R6877	1-215-485-00			1/4₩	
C6812	1-135-946-22	FILM 47000PI	3% 800V	D6815	8-719-911-19			R6804	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R6878	1-216-821-11		1K 5		
C6813	1-126-967-11	ELECT 47UF	20.00% 50V	D6816	8-719-110-41	DIODE RDISES	32	R6805	1-215-481-00	METAL	330 <b>K</b>	1%	1/4₩	R6880	1-219-751-51	METAL	47K 5	1/2W	
		ELECT 47UF	20.00% 35V	D6817	8-719-063-73	DIODE DINL20	J-TR	R6806	1-215-481-00	MPMAT.	330K	15	1/49	R6881	1-219-749-51	METAL	10K 5	1/2₩	
C6814	1-126-947-11		5.00% 50V	D6820	8-719-921-63	DIODE MTZJ-7	.5B	R6807	1-215-481-00		330K		1/4W	36882	1-216-841-11			1/10₩	
C6815	1-130-483-00		20,00% 50V	06821	8-719-110-49	DIODE RD18ES	32		1-211-981-11		33			36883	1-211-985-11			5% 1/10W	
C6816	1-126-964-11			06822	9-719-063-73			26808						26884	1-218-874-11			5% 1/10W	
C6820	1-130-495-00		5.00% 50V	26823	8-719-911-19			R6809	1-218-823-11		100				1-216-841-11			1/10W	
06321	1-126-964-11	BLECT 100F	20.00% 50V	. 50025				R6810	1-249-417-11	CARBON	lK	23	1/4W	1 R6385	1-510-041-11	MALAM SALE	4:7 2	-/14#	
06822	1-125-966-11	RLECT 33UF	20.00% 50V	06824	3-719-911-19			R6811	1-202-933-51	FUSIBLE	0.1	10%	1/2W	: R6387	1-249-411-11	CARBON	330 5	1/4₩	
06823	1-126-933-11		20.00% 16V	06825	8-719-911-19			R6812	1-218-869-11		3.28			36894	1-216-340-11	METAL DELP	39K 5	1/10#	
		ELECT(BLOCK) 2290F	20% 250V	06831	3-719-911-19			R6813	1-249-393-11		10		1/49	3,6896	1-216-839-11	METAL CHIP	33K 5	1/10W	
C6824			5.30% 50V	06832	3-119-911-19	DIODE 188113	-25		1-249-393-11		13		1/49	36897	1-216-853-11		470K 5		
05825	1-130-495-00			. 08919	3-719-348-45	DIODE ERA22-	18	36314					1/10W	38949		METAL CXIDE			
C6826	1-126-969-11	ELECT 223UF	20.00% 50V					36815	1-216-833-11	METAL CHIP	10 <b>K</b>	25	1/10 <b>F</b>	7,0343	1-210-400 61	TOTAL SALSA	J. 444 U		
06827	1-137-150-11	FILM 0.01UF	5.00% 100V	28927	8-719-991-33	DIODE 138133	T-77	R6816	1-216-833-11	METAL CHIP	10K	53	1/10W	38950		METAL CXIDE			
26834		CERAMIC CHIP 0.010F	10.00% 25V					R6317	1-243-979-21	METAL OXIDE	3.:	53	2₩	28951	1-216-486-21	METAL CXIDE	8.2K 5	3W	
26835		CERAMIC CHIP 3.22UF		1	< FERRIT	E BEAU >		R6818	1-249-389-11		4.7	5%	1/4W	38952	1-216-486-21	METAL CXIDE	8.2K 5	3W	
C6836	1-136-165-00		5.00% 50V					R6820	1-216-837-11		22K		1/10W	38954	1-260-123-11	CARBON	100K 5	1/2W	
	1-136-103-00		5.00% 200V	FB6801	1-412-911-11	FERRITE	CUE	R6821	1-216-837-11		22 <b>K</b>		1/10W	28955	1-260-123-11		100K 5	1/29	
C6837	1-136-103-00	F1124 0.10E	J.50% 2004					K0821	1-210-03/-11	MEING CEIF	248	20	7/ 104	10333		and on			
C6840	1-130-495-00	MYLAR 0.1UP	5.00% 50V	1	< IC >			R6823	1-247-843-11	CARBON	3.3K	5%	1/4W	R8956	1-260-123-11	CARBON	100K 5	1/2₩	
C6842	1-130-471-00		F 5.00% 50V			IC MCZ3001D		36825	1-218-912-11		510K		1/10W	28957	1-216-829-11	METAL CHIP	4.7K 5	1/10W	
C6843	1-135-945-22			106800				36827	1-216-849-11		220K			28988	1-260-123-11	CARBON	100K 5	1/2W	
C6848	1-126-963-11		20.00% 50V	106801		IC NJM2903M		R6828	1-218-395-11		100K			28989	1-249-429-11		10K 5	1/4%	
		CERAMIC CHIP 470PF	10.00% 50V	IC6802		IC NUM2904M		R6829			47K			R8990	1-216-840-11		39K 5		
C5849	1-102-902-11	CERAMIC CRIP WITH	10.500 300	106803		IC TLV431AII		40023	7-510-041-71	MEINE CHIP	A . F	23	1/104	110330				-,	
-4044		CERAMIC CHIP 0.1UP	10.00% 16V	106807	3-759-586-17	IC TL1431CZ-	·A2	A5020	1 01/ 041 11	METAL CHIP	47K	52	1/10W	R8991	1-216-834-11	METAL CHIP	128 5	1/109	
C6850								R6832					1/10W	20337	1 210 054 11	Marine Cart	2411 0	,	
C6952		CERAMIC CHIP 0.01UE		İ	< COIL >			R6833	1-216-833-11		10 <b>K</b>				4 DEGETOR	x variablz >			
C6853	1-126-933-11		20.00% 16V					R6834		METAL CHIP	1K		1/10W		< K251517	K VARIABLE >			
C8929	1-107-635-11		20.00% 160V	L6802	1-419-658-41		107UE	R6835	1-215-433-00		3.3K		1/4W						
C8930	1-129-898-00	FILM 0.0022	UF 5.00% 630V	L8901	1-406-674-11	INDUCTOR	3.3ME	R6836	1-215-449-00	METAL	15K	18	1/4W	RV6800	1-241-763-11	RES, ADJ, CE	CMET 4./K		
C8932	1-136-205-11	MYLAR 0.0221	F 5.00% 630V	a c	< TRANSI	STOR >		R6837	1-215-449-00	WETAL	15K	1%	1/4%		< SPARK	GAP >			
C893B	1-162-131-11		10.00% 2KV	1	( 1,44,02	.0.000		R6838	1-215-445-00		10K		1/4W						
C9939	1-162-129-00		10.00% 2KV	06301	9-779-901-91	TRANSTETOR	2SC2412K-T-146-R	R6839	1-215-447-00			13		SG6800	1-517-499-21	GAP. SPARK			
	1-137-150-11			26802			2SC2412K-T-146-R			LEAD, JUMPER			2/ 44			,			
C8944			20.00% 35V	06803		TRANSISTOR		R6840	-	METAL CHIP			1 /104	j	< TRANSP	OMED >			
C8345	1-126-947-11	ELECT 470F	20.004 334	06804		TRANSISTOR		R6841	1-218-847-11	METAL CHIP	15	U.35	1/10#		/ /www.	ANNER /			
C8953	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	06805		TRANSISTOR		R6843	1-218-845-11	METAL CHIP	820	0.5%	1/10W	T6800 A	1-453-378-21	TRANSFORMER	SSY, PLY	BACK (NX-6020)	//2214)
00753	7-504-004-11		******		,			R6844		METAL CHIP	15K			T8901		TRANSFORMER			Francis I. W
	< CONNEC	*****		Q6807	8-729-120-2R	TRANSISTOR	2SC1623-L5L6	R6845		METAL CHIP				13732					
	Connec	14N /		26808		TRANSISTOR		R6846		METAL CHIP	7.5K			* A-13	00-358-A A	Board, Comp	ete (KV	28FQ70B)	
	4 1 21 0 030 51	PLUG, CONNECTOR 8P		26813			2SB709A-QRS-TX				1K				00-167-A A				
CN6800				Q6814		TRANSISTOR	-	R6847	1-218-847-11	METAL CHIP	7.V	0.3€	1/10#	* A-13	00-601-A A	Board, Comp	ete (KV	28FQ70U)	
CN6801		PLUG (MICRO CONNEC	TOR; TOP	26815			2SB709A-QRS-TX							20000		· · · · · · · · · · · · · · · · · · ·			
CN6803		TAB (CONTACT)		50012	0 125-424-02			R6848		METAL CHIP	470		1/10W	A Bos	rd, Common	Parts			To married the
C16804	* 1-564-506-11	. PLUG, CONNECTOR 3P		06016	9 720 000 63	TRANSISTOR	DECI LARK	R6852		METAL CHIP	100K		1/100	-					
				Q6816			2SB709A-QRS-TX	R6865	1-216-835-11	METAL CHIP			1/10W		4-392-954-01	SCREW (M3X8)	P 58	+1	
	< DIODE	>		26817				R6867	1-216-809-11	METAL CHIP	100	58	1/10W	1	1 304 301 02	JOHN (JOHN)	, 1, 5,	.,	
				Q8909			STP5NB40(033Y)	R6868	1-216-797-11	METAL CHIP	10	5%	1/10W		4 (3) (3)	mon .			
D6800		DIGDE DINL40-TA2		28918	1-801-806-1	1 TRANSISTOR	DTU144EKA								< CAPACI	10X >			
06801	3-719-110-4	1 DIODE RD15ESB2						R6869	1-216-833-13	METAL CHIP	LOK	5%	1/10W			27.70	10000	20 202 10	207
06802		1 DICDE RD15ESB2		1	< RESIS	TCR >		R6870	-	METAL CHIP	220K		1/10W	01001	1~126-933-11		10007	20.003 15	
26803		9 DIODE 138119-25						26872	1-249-377-1		3.47		1/4%	21302	1-126-964-11		1007	20.00% 50	
26305		5 DIODE RD5.1ES32		JR6814		1 SHORT CHIP		R6873	1-249-431-1		158		1/49	31/304		CERAMIC CELL		10.30% 50	
24444	,			, ла6395	1-216-864-1	1 SHORT CHIP	1	36874		1 VETAL THIP				01006	1-126-333-11	ELECT	10007	20.00% 16	₩
								100 1	4.3-703	. wane dar		, ,1	27.570						

							OCHLOK	REF.NO.	PART NO	DESCRIPTION	REMARK	REF NO.	PART.NO	DESCRIPTION		REMARK
REF.NO.	PART NO	DESCRIPTION	REMARK	REF.NO.	PARTINO	DESCRIPTION	REMARK		1-126-960-11		20.00% 50V	CS106	1-126-933-11	ELECT	100UF	20.30% 16V
01008	1-163-021-91	CERAMIC CHIP 0.010F	10.303 50V	C2054	1-126-947-11	ELECT 47UF	20.00% 35¥	C2517	1-126-960-11		20.00% 50V	C5109	1-126-964-11		OUF	20.00% 50V
C1009		CERAMIC CHIP 68PF	5.00% 50V	C2055	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	C2518 C2519	1-126-959-11		20.00% 50V	C5110	1-126-947-11		170E	20.00% 35V
C1010		CERAMIC CHIP 68PF	5.00% 50V	C2057	1-126-964-11	ELECT 100F	20.00% 50V			CERAMIC CHIP 0.22UF	19.00% 16V	C5111	1-126-964-11		OUF	20.00% 50V
C1014	1-126-933-11		20.00% 16V	C2058	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C2521		CERAMIC CHIP 0.1UF	10.00% 50V	C5112	1-126-964-11		LOUP	20.00% 50V
C1014		CERAMIC CHIP 0.01UF	10.00% 50V	C2059	1-126-964-11	ELECT 10UF	20.00% 50V	C2523	1-110-339-11	CERARIC CELF U. TUF	10.004 304	C3112	1 140 304 11			
							00 000 2511	C3200	1-126-964-11	ELECT 10UP	20.00% 50V	C5114	1-164-156-11	CERAMIC CHIP (	).10F	25V
C1018	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V	C2060	1-126-947-11		20.00% 35V	C3202	1-104-666-11		20.00% 25V	C5115	1-126-964-11	ELECT 1	LOUP	20.00% 50V
C1020	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C2061		CERAMIC CHIP 0.0047UF	10.00% 50V	C3203	1-126-964-11		20.00% 50V	C5117	1-126-964-11	ELECT 1	LOUF	20.00% 50V
C1021	1-162-968-11	CERAMIC CHIP 0.00470F	10.00% 50V	02062		CERAMIC CHIP 1UF	16V	C3206	1-125-964-11		20.00% 50V	C5113	1-164-156-11	CERAMIC CHIP C	1.10F	25V
C1322	1-216-295-91	SHORT CHIP 0		02063	1-164-346-11	CERAMIC CHIP 1UF	16V	C3208		CERAMIC CHIP 22PF	5.00% 50V	05119	1-107-823-11	CERAMIC CHIP	.470F	10.00% 16V
22000		CERAMIC CHIP 0.00470F	10.30% 50V	C2064	1-126-964-11	ELECT 100F	20.30≹ 50 <b>V</b>	3200				1				
				20005	1 150 056-11	CERAMIC CHIP 9.002207	10.00* 50V	C3209	1-163-235-11	CERAMIC CHIP 12PF	5.00% 50V	35120		CERAMIC CHIP		10.00% 16V
02001		CERAMIC CHIP 0.0047UF	10.00% 50V	02065		GERAMIC CHIP 0.002207	10.00% 50V	03210	1-126-964-11	ELECT 130F	20.30% 50V	05121		CERAMIC CHIP (		10.00% 16V
02006		CERAMIC CHIP 470PF	10.00% 5 <b>0V</b>	22056			10% 16V	33211	1-126-964-11	ELECT 130F	20.00% 50V	- 35122	1-164-156-11	CERAMIC CHIP	0.10F	25 <b>V</b>
22007		CERAMIC CHIP 0.010F	10.30% 50V	32069		TERAMIC CEIP 3.2207	20.00* 50V	23213	1-164-222-91	CERAMIC CHIP 3.220F	25V	25124	1-164-156-11	CERAMIC CHIP	).10F	25V
22008	1-162-964-11	GERAMIC CHIP 9.3010F	10.30% 50 <b>V</b>	02073	1-126-960-11			53214	1-164-122-91	CERAMIC CRIP 3 220F	25V	15125	1-126-964-11	ELECT	10 <b>0F</b>	20.10% EOV
02009	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	- 02074	1-126-960-11	ELECT 1JF	20.00% 50V					:				
				20275	1-126-960-11	ELECT 10F	20.00% 50V	C3215	1-164-222-91	CERAMIC CHIP 3.2207	25V	25300	1-126-933-11		LOCUF	20.00% 16V
02010		CERAMIC CHIP 0.301UF	10.30% 50V	C2075			20.00% 50V	03216	1-164-222-91	CERAMIC CEIP 0.220F	25 <b>V</b>	35331	1-126-947-11	ELECT	470F	20.00% 35V
02011		CERAMIC CHIP 470PF	10.30% 50V	C2077	1-126-960-11		20.00% 50V	C3217	1-164-222-91	CERAMIC CHIP 0.22UF	25V	05302	1-164-222-91	CERAMIC CHIP	3.22UF	25V
02012		CERAMIC CHIP 470PF	10.00% 50V	C2078	1-126-963-11		10.00% 25V	C3218	1-164-222-91	CERAMIC CHIP 3.220F	25V	C5303	1-136-153-30	FILM	0.01UF	5.00% 50V
02013		CERAMIC CHIP 470PF	10.00% 50V	C2079		CERAMIC CHIP 0.1UF	5.00% 50V	C3219	1-164-222-91	CERAMIC CHIP 0.220F	25V	05304	1-164-182-11	CERAMIC CHIP	TUE E 00 . C	10.00% 50V
C2014	1-164-346-11	CERAMIC CHIP 1UF	16V	C2080	1-162-927-11	CERAMIC CHIP 100PF	3.00% 304									
				02001	1 169-000-11	CERAMIC CHIP 120PF	5.00% 50V	C3220	1-164-222-91	CERAMIC CHIP 3.22UF	25V	C5305		CERAMIC CHIP		10.00% 16V
C2015		CERAMIC CHIP 0.01UF	10.00% 50V	C2031		SHORT CHIP 0	3.000	C3221	1-164-222-91	CERAMIC CEIP 0.22UF	25V	C5306	1-164-156-11	CERAMIC CHIP	0.10F	25V
C2016		CERAMIC CHIP 470PF	10.00₹ 50V	C2082		CERAMIC CHIP 0.001UP	10.00% 50V	C3222	1-164-222-91	CERAMIC CHIP 0.22UF	25V	C5307	1-164-156-11	CERAMIC CHIP	0.10F	25 <b>V</b>
C2018		CERAMIC CHIP 470PF	10.00₹ 50V	C2083			10.00% 50V	03223	1-164-222-91	CERAMIC CHIP 1.22UF	25V	05309	1-162-927-11	CERAMIC CHIP	100PF	5.00% 50V
C2019		CERAMIC CHIP 1UF	16V	C2094		CERAMIC CHIP 470PF	10.00% 50V	C3224	1-164-222-91	CERAMIC CHIP 3.22UF	25V	05310	1-136-165-00	FILM	0.1UF	5.30≹ <b>50V</b>
C2021	1-162-962-11	CERAMIC CHIP 470PF	10.30₹ 50V	C2085	1-163-021-91	CERAMIC CHIP 0.010F	10.004 304									
				***************************************	1 100 001 11	CERAMIC CHIP 0.001UF	10.00% 50V	C3225	1-164-222-91	CERAMIC CHIP 3.22UF	25V	05311	1-164-156-11	CERAMIC CHI?	0.10F	25V
C2322		CERAMIC CHIP 0.0022UF	10.00% 50V	C2086			10.00% 50V	C3226	1-164-222-91	CERAMIC CHIP 0.22UF	25V	C5312	1-165-176-11	CERAMIC CHIP	0.047UF	10.00% 16V
C2023		CERAMIC CHIP 0.0022UF	10.00% 50V	C2087		CERAMIC CHIP 0.010F	10.00% 50V	C3227	1-164-222-91	CERAMIC CHIP 0.22UF	25V	C5313	1-107-714-11	ELECT	100F	20.00% 50V
C2024	1-164-346-11	CERAMIC CHIP 1UF	16V	C2088		CERAMIC CHIP 0.001UF		C3228	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V	C5314	1-162-970-11	CERAMIC CHIP	0.01UP	10.00% 25V
C2026	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2089		CERAMIC CHIP 470PF	10.00% 50V	C3229		CERAMIC CHIF 0.22UF	10.00% 16V	C5316	1-164-230-11	CERAMIC CHIP	220PF	5.00% 50V
C2027	1-126-947-11	ELECT 470F	20.00% 35V	C2090	1-126-947-11	ELECT 470F	20.00% 35V									
			22 222 222	C2091	1-126-947-11	ELECT 47UF	20.90% 35V	C3230	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V	C5318	1-164-156-11	CERAMIC CHIP		25 <b>V</b>
C2028	1-126-947-11		20.30% 35V	i	1-126-947-11		20.00% 35V	03231	1-164-489-11	CERAMIC CHIP 3.22UF	10.00% 16V	05319	1-136-347-11			5.00% 630V
02029		CERAMIC CHIP 1UF	16V	C2092	1-126-947-11		20.00% 35V	C3232	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V	25320	1-129-716-00	FILM	0.015UF	5.00% 636 <b>V</b>
02031		CERAMIC CHIP 470PF	10.00% 50V	C2093			20.00% 35V	C3233	1-164-489-11	CERAMIC CHIP 3.22UF	10.00% 16V	05321	1-136-347-11	FILM	0.0047UF	5.00% 63 <b>0V</b>
22034		CERAMIC CHIP 10F	16V	C2094	1-126-947-11		20.00% 35V	C3234	1-164-439-11	CERAMIC CHIP 0.22UF	10.00% 16V	C5322	1-164-156-11	CERAMIC CHIP	0.1UF	25V
02035	1-164-346-11	CERAMIC CHIP 1UF	16V	C2095	1-170-241-11	ALECT 1/05	20.000 301									
			10 002 257	C2096	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C3235	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C5323	1-136-159-00		0.033UF	5.00% 5 <b>0V</b>
C2038		CERAMIC CHIP 0.01UF	10.00% 25V 0.25PF 50V	C2500	1-126-952-11		20.00% 35V	C3236	1-165-176-11	CERAMIC CEIP 0.0470F	10.00% 16V	C5400	1-126-964-11		10UF	20.00% 50V
C2039		CERAMIC CHIP 1.5PF		C2502	1-104-666-11		20.00% 25V	C3237	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C5401	1-107-714-11	ELECT	100F	20.00% 50V
C2040		CERAMIC CHIP 0.001UF	10.00% 50V			CERAMIC CHIP 0.22UF	25V	C3238	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C5403	1-128-527-11	ELECT	3300F	20.00% 25V
C2041		CERAMIC CHIP 1.5PF	0.25PF 50V	C2504		CERAMIC CHIP 0.13F	10.00% 50V	C3239	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C5404	1-102-223-30	CERAMIC	470PF	10.00% 500V
C2042	1-216-864-11	SHORT CHIP 0		C2505	1-113-339-11	CERTAIL CHIP V.1VE	10.500 541									
60013	1,160 060 11	CERAMIC CHIP 470PF	10.00% 50V	C2506	1-126-972-1	1 ELECT 1000UF	20.00% 50V	C3240		CERAMIC CHIP 0.0470F	10.00% 16V	C5405		CERAMIC CHIP		10.30% 50V
C2043			10.00% 50V	C2507		CERAMIC CHIP 220PF	5.00% 50V	C3241	1-126-933-11		20.00% 16V	C5406	1-129-702-00		0.001UF	10.90% 400V
C2044		CERAMIC CHIP 0.01UF	5.00% 50V	C2508		1 CERAMIC CHIP 220PF	5.00% 50V	C3242	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V	25407	1-128-527-11		330UF	20.00% 25V
C2046		CERAMIC CHIP 47PF	5.30% 50V	C2509		1 CERAMIC CHIP 220PF	5.00% 50V	C3243		CERAMIC CHIP 0.22UF	25V	25409	1-126-968-11		100UF	20.00% 50V
C2047	1-162-927-11	CERAMIC CHIP 100PF	20.00% 35V	C2510		1 CERAMIC CHIP 0.022UF	10.00% 25V	C3245	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	C5410	1-163-021-91	CERAMIC CHIP	0.010F	10.00% 50V
C2048	7-170-24(-7)	. DECL TIVE	24.040 301	2007				-845		OME 100 OF 1 115	10 303 500	22.411	1_127 401 14	MALE TO THE PARTY OF THE PARTY	U JJua	5.30% 100V
C2049	1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V	C2511	1-163-021-9	1 CERAMIC CHIP 0.01UF	10.00% 50V	C3250		CERAMIC CEIP 0.010F	10.00% 50V	05411	1-137-401-11		0.22UF 0.1UF	10.00% 100V
32050		CERAMIC CHIP 0.47UF	10.00% 16V	C2512	1-163-021-9	1 CERAMIC CHIP 0.0107	10.00% 50V	C3300		CERAMIC CEIP 100PF	5.30% 50V	25412	1-106-220-00			5.30% 100V
32050	1-126-954-1		20.33% 50V	C2513	1-126-952-1		20.00% 35V	C3309	1-126-364-11		20.30% 50V	25413	1-130-785-11		0.470F	
22052		CERAMIC CHIP ).10F	10.20% 25V	72515	1-164-227-1	1 CERAMIC CELP 3.322TF	10.00% 25V	C3310		CERAMIC CETP 1.22UF	25V	25414	1-126-964-11		100F	20.30% 50V
12753		CERAMIC CRIP 1.3220F	10.00% 25V	72516	1-126-953-1	1 SEECT 2200TF	20.00% 35V	05103	1-126-960-11	L BLECT LUF	20.00% 50V	55801	1-126-963-11	الكست	4 708	20 00# 80V
26.23																

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REF.NO.	PARTINO	DESCRIPTION	REMARK	REF.NO. PART.N	DESCRIPTION	REMARK	REF.NO.	PARTINO	DESCRIPTION	REMARK	REF NO.	PART NO	DESCRIPTION		REMARK
							50113	8-719-921-88	DIODE MTZJ-13B		05813	3-719-081-97	DIODE MMDL914	iTl	
05850	1-126-963-11		20.00% 50V	ì	927-11 CERAMIC CHIP 100PF	5.00% 50V	01006	8-719-109-39	DIODE RD5.6ESB2		05814	1-216-295-91	SHORT CHIP	0	
C5851	1-107-826-11	CERAMIC CHIP 0.10F	10.00% 16V		004-11 TERAMIC CHIP 0.10F	10.00% 25V	D2014	8-719-929-15	DIODE HZS9.1NB2		06200	3-719-063-70	DIODE DINL200	1	
C5854	1-107-826-11	CERAMIC CHIP 0.10F	10.00% 16V		004-11 CERAMIC CHIP 0.1UP	10.00% 25V	D2015	8-719-929-15	DIODE HZS9.1MB2		D7004	8-719-929-15	DIODE HZS9.1N	B2	
C5858	1-107-826-11	CERAMIC CHIP 0.10F	10.00% 16V		004-11 CERAMIC CHIP 0.10F	10.00% 25V	D2016	8-719-050-38	DIODE MIMAISSWE-TI		D7006	1-216-809-11	METAL CHIP	100 5%	1/10%
C5859	1-126-960-11	ELECT 10F	20.00% 50V	C7054 1-126-	963-11 KLECT 4.7UF	20.00% 50V					1				
						25V	D2018	8-719-929-15	DIODE HES9.1NB2			< FERRIT	BEAD >		
C5860		CERAMIC CHIP 0.047UF	10.00% 16V		222-91 CERAMIC CHIP 0.22UP		D2019	8-719-929-15	DIODE HZS9.1NB2		1				
C5868		CERAMIC CHIP 0.10F	10.00% 25V		933-11 ELECT 100UF	20.00% 16V	D2500	8-719-050-38	DIODE MIMA152WK-T1		FB3001	1-414-760-21	FERRITE	OUH	
C5873	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	P .	222-91 TERAMIC CHIP 0.22UF	25V	02502	3-719-109-89	DIODE RD5.6ESB2						
C5388		CERAMIC CHIP 0.1UF	25 <b>V</b>		933-11 ELECT 1000F	20.00% 16V	D2503	3-719-050-38	DIODE MIMA152WK-T1			< FILTER	>		
25889	1-126-964-11	ELECT 100F	20.00% BOV	C7059 1-126-	933-11 ELECT 1000F	20.30% 16V									
				4		2511	23001	3-719-929-15	DIODE HZS9. 1NB2		F12000	1-239-303-11	FILTER. EMI		
25890	1-164-227-11	CERAMIC CHIP 3.322UF	10.00% 25V	1	222-91 JERAMIC CHIP 0.22UF		03003	3-719-929-15	DIODE HZS9.1NB2		1				
25891	1-137-581-11	FILM 0.10F	5.00% 100V		004-11 DERAMIC CHIP 0.10F	10.30% 25V	03005	3-719-929-15	DIODE HZS9.1NB2		:	< 10 >			
35892	1-107-826-11	CERAMIC CHIP 1.13F	10.00% 16V		004-11 DERAMIC CHIP 3.10F	10.00% 25V	23007	8-719-109-89	DICOR RD5. SESB2						
05993	1-126-947-11	ELECT 470F	20.00% 35V		004-11 DERAMIC DEIP 0 10F	10.00% ZSV	03008	3-719-109-89	DIODE RD5. SESB2		102000	6-701-031-11	IC MSP3411G-2	A-311	
25394	1-126-947-11	ELECT 479F	20.00% 35V	07064 1-126-	947-11 ELECT 470F	20.00% 35V					122301	3-759-100-36			
							53909	3-719-929-15	DIODE HZS9.1MB2			3-759-831-56			
25395	1-164-156-11	CERAMIC CHIP 3.10F	2 <b>5</b> ¥	27065 1-164-	222-91 CERAMIC CHIP 0.220F		53011		DIODE HZS9.1NB2		103200	6-702-458-01		11-GEG	
25895		CERAMIC CHIP 3.347UF	10.00% 16V	C7067 1-126-	947-11 ELECT 470F	20.00% 35V	D3013		DIODE HZS9.1NB2		105102	3-759-325-48			
C5897		CERAMIC CHIP 0.01UF	10.00% 25V	C7068 1-164-	222-91 CERAMIC CHIP 0.22UF	25V	03015		DIODE HZS9 1NB2			0 100 020 10			
05898		CERAMIC CHIP 0.001UF	10.00% 50V	C7069 1-162-	919-11 CERAMIC CHIP 22PF	5.00% 5CV	D3017		DIODE RD5.6ESB2		105103	3-752-072-34	TO CYNTHYSAM-	.74	
25899		CERAMIC CHIP 3.470F	10.00 € 16V	C7070 1-162-	919-11 CERAMIC CHIP 22PF	5.00% 50V	05011	3 17 107 37	5105E 105. GEORE		105104	8-759-803-42		••	
							D3018	9_710_100_90	DIODE RD5, 6ESB2		IC5300	8-759-008-70			
06200	1-126-933-11	ELECT 100UF	20.00% 16V	C7071 1-162-	919-11 CERAMIC CHIP 22PF	5.00% 50V	D3019		DIODE HZS9.1MB2		1	8-759-659-67			
C5201	1-126-935-11		20.00% 16V				D3019 D3021				105301	8-759-659-67			
C6202	1-126-933-11		20.00% 16V	<	CONNECTOR >				DIODE HZS9.1NB2		103302	5-135-535-57	TO TWO SATISTIFE		
C6202	1-126-935-11		20.00% 16V		•		03023		DIODE RD5.6ESB2						
	1-126-933-11		20.00% 16V	man:n1 + 1-923-	330-11 CONNECTOR, BOARD TO	BOARD 40P	53024	8-719-929-15	DIODE HZS9.1NB2		IC5400	8-759-696-71			
C620 <b>4</b>	1-150-332-11	EMECI 1500F	20,500 154		520-11 FLUG, CONNECTOR SP	2					106200	8-759-648-19			
#C20F	1 146 335 11	ELECT 470UF	20.00% 16V		035-61 PLUG, CONNECTOR 4P		53026		DIODE HZS9.1NB2			3-759-648-20		Y	
26205	1-126-935-11		20.00% 16V		319-11 CONNECTOR (SQUARE T	מוני ושטעי	03028		DIODE EZS9.1NB2		IC6202	8-759-445-59			
05206	1-126-933-11		20.00% 16V		296-21 CONNECTOR, DUAL SCA		03201		DIODE RD5.6ESB2		106203	8-759-098-24	IC PQ30RV11		
C6207	1-126-933-11		20.00% 16V	CH1001 - 1-100	270 LI COMMECTON, SOME SOM	***	05101		DIODE MIMA152WK-T1						
C6208	1-126-933-11		20.00% 16V	m2000 + 1-564	512-11 PLUG, CONNECTOR 9P		D5103	8-719-110-86	DIODE RD39ESB		IC6204		IC L78L33ABZ-	AP	
C6209	1-126-933-11	ELECT 100UF	20.005 104		974-51 PLUG, CONNECTOR 3P						IC6205	8-759-394-35			
		42000	00 000 100		507-11 PLUG, CONNECTOR 4P		05104		DIODE RD5.6ESB2			8-759-991-41			
C6210	1-126-935-11		20.00% 16V		977-51 PLUG, CONNECTOR 6P		D5300	8-719-081-97	DIODE MMDL914T1		IC7002	3-752-090-38	IC CXA2100AQ~	TL	
06211	1-126-947-11		20.00€ 35V				05303	8-719-081-97	DIODE MEDL914T1						
35212	1-126-933-11		20.00% 16V	CN5002 × 1-816-	984-71 PLUG, CONNECTOR 7P		D5304	8-719-081-97	DIODE MMDL914T1			< SOCKET	>		
06213	1-126-933-11		20.00% 16V		And the same commence in		J5305	8-719-991-33	DICDE 1SS133T-77						
06214	1-126-933-11	ELECT 1300F	20.00% 16V		-974-51 FLUG, CONNECTOR 3P	TI TUTOLING					J2000	1-784-632-11	JACK, PIN 2P		
					333-11 PIN, CONNECTOR (PCB)		25306	8-719-302-43	DIODE EL12						
C7002	1-126-947-11		20.00% 35V		-772-11 PLUG (MICRO CONNECT		05397	8-719-987-87	DIODE ERASS-009			< COIT >			
C7004		CERAMIC CHIP 0.220F	25V		-507-11 PLUG, CONNECTOR 4P		D5309	8-719-081-97	DIODE MODL91411						
27008		CERAMIC CHIP 22PF	5.00% 50V	CN6202 * 1-564	-516-11 PLUG, CONNECTOR 13E	?	D5310	8-719-081-97	DIODE MMDL914T1		L1900	1-412-987-31	INDUCTOR	4.79H	
C7016		CERAMIC CRIP 0.47UF	10.00% 16V				D5400	8-719-982-03	DIODE MTZJ-3.6A		11001	1-412-987-31	INDUCTOR	4.7UH	
C7018	1-164-004-11	CERAMIC CHIP 0.10F	10.00% 25V		-915-11 TAB (CONTACT)						11002	1-414-934-21	INDUCTOR	1000	
					-042-81 PLUG, CONNECTOR 5P		05401	8-719-050-38	DIODE MIMA152WK-T1		L1003	1-414-934-21	INDUCTOR	10 <b>0H</b>	
C7019	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V		-512-11 PLUG, CONNECTOR 3P		D5404		DIODE RD15ESB2		11005	1-414-934-21	INDUCTOR	10 <b>UH</b>	
C7920		CERAMIC CHIP 0.1UF	10.00% 25V	CN8001 1-766	-281-11 PIN, CONNECTOR (PC	BOARD) 3P	D5405		DICDE GP08D						
07021	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V				D5406		DIODE MMDL914T1		12000	1-414-934-21	INDUCTOR	100H	
C7022	1-164-004-11	CERAMIC CHIP 0.10F	10.00% 25V	<	DIODE >		05407		DIODE MADL914T1		12001	1-414-934-21		1008	
C7023	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V				VJ 14 /	0 713 001 37			12007				
				D0101 8-719	-921-88 DIODE MTZJ-13B		D5804	8-719-109-09	DIODE RD5.6ESB2		12008	1-216-295-91		0.0224	
C7030	1-164-004-11	CERAMIC CHIP 3.10F	10.00% 25V	D0104 8-719	-109-89 DIODE RD5.6ESB2		D5807		DIODE HZS9, 1NB2		1,2009	1-216-295-91		0	
C7031		CERAMIC CHIP 0.1UF	10.00% 25V	D0110 8-719	-109-89 DIODE RD5.6ESB2		D5809		DIODE MIMAISSWK-71			F F79 F33 .31	James Calle	•	
CT032		CERAMIC CHIP 3.10F	10.00% 25V	00111 3-719	-929-15 DIODE HZS9.1MB2		D5811		DIODE MADISTATI		1,2010	1-414-928-31	- עחוורייהרם	108	
27038		CERAMIC CHIP 0.470F	10.00% 16V	00112 3-719	-921-88 DICDE MTIJ-13B		D5812		DIODE MADISTATI		12010	1-414-934-21		1008	
27039		TERAMIC CHIP 3.3022TF		1			30914	3-/19-081-9/	PIONE SERVICE		, 140	2-714-734-62	Toron and	2104	

- 66 -

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Note: The components identified by shading and marked a are critical for safety. Replace only with the part numbers specified in the parts list.

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REF NO.	PARTINO	DESCRIPTION		REMARK	REF.NO.	2407.50	DECCRIPTION	2511104												L
				DEMARK		PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	N		REMARK	BEF NO.	PARTINO	DESCRIPTION			BEMARK
12014	1-408-602-31		8.2UH		22503		TRANSISTOR MSD601-RST1		R0103	1-216-073-91	DES-CRID	10K	53	1/10W						
12500		LEAD, JUMPER			02504	-	TRANSISTOR MSB709-RT1		R0104	1-216-827-11		3.3K		1/10W	R2056	1-216-037-00		330		1/10W
L2501		LEAD, JUMPER	(5.0MM)		Q3200		TRANSISTOR MSD601-RST1		R0105	1-216-025-11		100		1/10W	R2057	1-216-025-11		100		1/10W
L3000	1-216-295-91		0		Q3201		TRANSISTOR MSD601-RST1		R0107	1-216-025-11			5%	1/10W	R2058	1-216-025-11		100		1/10W
L3004	1-216-295-91	SHORT CHIP	0		Q3202	8-729-010-05	TRANSISTOR MSB709-RT1		R1000	1-216-049-11		1K		1/10%	R2059 R2060	1-216-829-11		4.7K		1/10W 1/10W
L3005	1-216-295-91	SHORT CHIP	0		Q3204	8-729-010-05	TRANSISTOR MSB709-RT1							-,	12000	1 210 023 11	MOLAN CALL	4. /A	J1	1/100
L3006	1-216-295-91	SHORT CHIP	0		03300		TRANSISTOR MSB709-RT1		R1001	1-216-001-00	RES-CHIP	10	5%	1/10W	R2061	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
L3007	1-216-295-91		0		03301		TRANSISTOR MSB709-RT:		R1002	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2062	1-216-829-11	METAL CHIP	4.7K	58	1/10W
L3008	1-216-295-91		0		23302		TRANSISTOR MSB709-RT1		31003	1-216-309-11	METAL CHIP	100	5%	1/10W	R2063		METAL CHIP			1/10W
13009	1-216-295-31		9		23500		TRANSISTOR 2SK2036(TESSL)		31004	1-216-309-11	METAL CHIP	100	3%	1/10W	32064	1-249-425-11		4.7K		1/4%
-			•		20011	,			31005	1-216-049-11	RES-CHIP	1K	58	1/109	32065		METAL CHIP			
13010	1-216-295-91	SHORT CHIP	0		23501	3-729-028-28	TRANSISTOR 2SK2036(TEBEL)													
13011	1-316-295-91	SECRT CHIP	9		25100	3-729-010-05	TRANSISTOR MSB709-RT1		R1006	1-216-351-00			33	1/10W	32066	1-216-829-11	METAL CHIP	1. K	58	1/11#
13012	1-216-295-91	SECRT CHIP	3		25101	3-729-010-29	TRANSISTOR MSD601-RST1		R1007	1-412-987-31		4.708			32067	1-216-829-11	HETAL DELP	4. 1	วีซ้	1,10%
13200	1-412-706-31	INDUCTOR	10UB		25300	3-729-010-29	TRANSISTOR MSD601-RST1		R1008	1-216-295-91		0			R2068	1-216-049-11	RES-CEI2	1.3	5%	1 117
13202	1-412-006-31	INDUCTOR	1008		25301	3-729-053-33	TRANSISTOR IRF614-037		R1309	1-414-530-21		- 100NE			32069	1-216-837-11	METAL CHIP	22%	58	1/100
									R1010	1-216-295-91	SHORT CHIP	J			R2070	1-216-333-11	METAL HIP	10K	53	1/100
13203	1-412-106-31		1008		25302		TRANSISTOR 2SB734-34		21014	1 23 6 205 21	2000 2010	1			1					
L3206	1-412-006-31	INDUCTOR	100H		25303	8-729-010-29	TRANSISTOR MSD601-RST1		R1014	1-216-295-91		0		. /* ***	R2071	1-216-839-11		33 <b>K</b>		
13208	1-412-006-31		10UH		25304	8-729-010-29	TRANSISTOR MSD601-RST1		R1017	1-216-822-11			25	1/10W	R2072	1-216-049-11		1%	53	1,100
13300	1-412-006-31		100H		25305	9-729-119-78	TRANSISTOR 2SC2785-EFE		R1019	1-216-295-91		0		4 /4 000	R2073	1-216-049-11		1K		
15300	1-406-989-21	INDUCTOR	10ME		25306	8-729-140-97	TRANSISTOR 2SB734-34		R1021	1-216-833-11					R2074	1-216-837-11		22₹	5%	1/10%
									R1022	1-216-839-11	METAL CHIP	33K	28	1/10W	32075	1-216-833-11	METAL CHIP	10K	53	1/10W
L5301	1-406-989-21	INDUCTOR	10MH		Q5307	8-729-010-05	TRANSISTOR MSB709-RT1													
L5400	1-412-524-11	INDUCTOR	9.2UH		Q5400	8-729-010-29	TRANSISTOR MSD601-RST1		R1023	1-216-849-11					R2076	1-216-839-11	METAL CHIP	33K	58	1/10W
15896	1-216-864-11		0		25401	3-729-421-19	TRANSISTOR UN2213		R1024	1-216-839-11		33K			32077	1-216-049-11		1K	5%	1/10W
15897	1-216-864-11	SHORT CHIP	0		Q5 <b>4</b> 02	8-729-010-05	TRANSISTOR MSB709-RT1		R1025	1-216-337-11		22K			32078	1-216-025-11	RES-CHIP	100	5%	1/10W
L5898	1-414-934-21	INDUCTOR	10UH		25403	8-729-421-19	TRANSISTOR UN2213		R1026	1-216-317-11		470			R2079	1-216-049-11		1K		
									R2009	1-216-317-11	METAL CHIP	470	38	1/1UW	R2080	1-218-867-11	METAL CHIP	6.8K	0.5%	1/13#
15399	1-414-934-21		10UH		25404		TRANSISTOR IRF620		22010	1 216 217 11	MORE COTTO	422		1 /2 022						
17001	1-414-934-21		10UH		25813		TRANSISTOR UN2213		R2010	1-216-317-11		470			R2081	1-216-833-11		10K		•
L7009	1-414-934-21		10UH		Q5814		TRANSISTOR MSB709-RT1		R2011	1-216-049-11		1K			R2082	1-216-805-11		47	5₹	1/10₩
L7010	1-414-934-21		10 <b>UH</b>		25815		TRANSISTOR MSD601-RST1		R2014	1-216-049-11		1K	38	1/10W	R2083	1-216-817-11		470	5%	1/10W
L7011	1-414-934-21	INDUCTOR	1001		25816	8-729-010-05	TRANSISTOR MSB709-RT1		R2015 R2017	1-216-295-91 1-216-953-11		0 470m	53	1/109	R2084	1-216-837-11		22K		
L7012	1-414-934-21	TYDIICTOR	10UH		26201	9-729-140-97	TRANSISTOR 2SB734-34			1 110 333 11		T.ON.		1/104	R2085	1-216-837-11	METAL CHIP	22K	58	1/10W
4.444	11 117 331 21	1.1500151	10011		27003		TRANSISTOR MSD601-RST1		R2018	1-216-295-91	SEORT CHIP	0			R2086	1-216-837-11	שביי ינים	22K	=1	1/179
	< 350,550,55	CR MCDULE >			27009		TRANSISTOR MSB709-RT1		32020	1-216-853-11		470K	5%	1/10W	32087	1-216-837-11		22K		
	1 21/01202	CR MODULE >			27011		TRANSISTOR MSB709-RT1		R2023	1-216-353-11		470K			R2088	1-216-041-00				
P\$2501 A	1-533-597-31	TO TIME	53		27312		TRANSISTOR MSB709-RT1		R2026	1-216-953-11		470K			R2089	1-216-041-00		470		
401041	1 333 331 31		•		8.012	5-123-010-03	TUNGSTOLON WODIOS-VIT		R2029	1-216-853-11		470K			R2092	1-216-039-00		390		
	< TRANSIS	TOR >			27013	8-729-010-29	TRANSISTOR MSD601-RST1									2 220 037 00	NEO CELE	330 .	2.0	7/ 1/4
					27014		TRANSISTOR MSB709-RT1		R2032	1-216-853-11	METAL CHIP	470K	58	1/10W	R2093	1-216-039-00	RES-CHIP	390	5 ik	1/109
21000	8-729-010-05	TRANSISTOR MSE	B709-RT1		27015		TRANSISTOR MSB709-RT1		R2035	1-216-853-11	METAL CHIP	470K	5%	1/10W	R2094	1-216-039-00		390		1/10W
01001	8-729-010-29	TRANSISTOR MSI	D601-RST1		27016		TRANSISTOR MSD601-RST1		R2038	1-216-853-11	METAL CHIP	470K	5%	1/10W	R2095	1-216-039-00		390		
Q1004		TRANSISTOR MSE			27017		TRANSISTOR MSB709-RT1		R2041	1-216-853-11	METAL CHIP	470K	5%	1/10W	32096	1-216-039-00		390		
21005	8-729-421-19	TRANSISTOR UN2	2213						R2042	1-216-829-11	METAL CHIP	4.7K 3	53	1/10W	32097	1-216-039-00		390		
Q1006		TRANSISTOR MSE			27018	3-729-010-05	TRANSISTOR MSB709-RT1												••	-/
•					27019		TRANSISTOR MSD601-RST1		R2043	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2098	1-216-049-11	RES-CHID	1K !	52-	1/10#
22000	8-729-010-29	TRANSISTOR MSI	0601-RST1						R2044	1-216-853-11	METAL CHIP	470K	58	1/10W	R2099	1-216-049-11		1X 5		
-	8-729-010-29				1	< RESISTOR	1>		R2047	1-216-853-11					R2500	1-216-073-91				
02002	8-729-010-29								R2048	1-216-837-11					R2501	1-216-341-11				
22003		TRANSISTOR MS			JR121	1-216-864-11	SHORT CHIP 0		R2050	1-216-845-11					R2502	1-208-810-11				
22004		TRANSISTOR MSI			JR123		SHORT CHIP 0									- 500 GIA-II	umium Citt	LUR 1	3.48	71 70#
							SHORT CHIP 0		R2051	1-216-049-11	RES-CHIP	1K :	5%	1/10W	R2503	1-208-810-11	WETAL THIS	158 4	1 53	1710m
22005	3-709-010-29	TRANSISTOR MS	D601-RST1		:				R2052	1-216-337-11					R2503	1-216-049-11		18 :		
	8-709-010-29				R0101	1-216-423-11	METAL CHIP 10K 5%	ling.	R2053	1-216-364-11					R2507	1-216-049-11				
	3-109-010-29				20132		METAL CHIP 3 3K 5		32054	1-216-049-11			E R	1/10W	R2509	1-249-417-11				
								-1 + -4	32035	1-216-049-11					32511	1-016-073-41		18		
																. 444 / 3 /2	control staged		41	a. a. 4



BEF NO.	PART NO	DESCRIPTION			REMARK	BEF.NO.	PARTINO	DESCRIPTION			REMARK	255 10	2427.00	0.50.00.00.0									<u></u>
										F 1	1/1/04	REF NO.	PARTINO	DESCRIPTIO	IN		REMARK	REF.NO.	PARTINO	DESCRIPTIO	N		REMARK
R2516	1-216-091-00		22K 5			R3219 R3220	1-216-921-11				1/10W	R5148		METAL CHIP	100	5%	1/10W	R5345	1-208-832-11	METAL CHIP	1209	0.53	1/109
32517	1-216-841-11		47K 5				1-216-837-11		22K		1/10W	R5149	1-218-833-11		270	0.5	% 1/10W	35346		NETAL CHIP			
R2518	1-216-049-11		1 <b>X</b> 5			R3221	1-216-837-11		22K		1/10W	R5150	1-249-414-11	CARBON	560	5%	1/49	R5347	1-216-833-11				1/10W
R2519	1-216-833-11		10K 5		10W	R3222	1-216-837-11		22K		1/10%	R5151	1-249-454-11	CARBON	3.9	5%	1/4%	R5349	1-216-043-91				1/10W
R2520	1-216-025-11	RES-CHIP	100 5	1/	10W	R3223	1-216-837-11	METAL CHIP	22K	38	1/10W	R5152	1-249-413-11	CARBON	470	5%	1/4W	R5350	1-216-041-00		470		1/10W
R2524	1-216-833-11	NETAL CHIP	10K 5	§ 1/	10%	R3225	1-216-025-11	RES-CHIP	100	5%	1/10W	R5153	1-249-393-11	CADDON	10		1/4W						
R2525	1-216-828-11	METAL CHIP	3.9K 5	1/	10W	R3226	1-216-025-11	RES-CEIP	100	5%	1/10%	R5154	1-216-833-11		10K		-,	25351	1-216-809-11				1/10W
R2912	1-216-295-91	SHORT CHIP	0			R3229	1-216-025-11	RES-CBIP	100	58	1/10W	R5155	1-249-421-11		2.2K		1/10₩	R5352	1-216-821-11		1K		1/10W
R2914	1-216-853-11	METAL CHIP	470K 5	3 1/	10W	R3233	1-216-821-11	METAL CHIP	1.8	53	1/10W	R5156	1-216-833-11				1/4W 1/10W	35400	1-216-848-11				1/10%
32921	1-216-295-91	SHORT CHIP	0			R3234	1-216-821-11	METAL CHIP	1.K	53	1/10W	R\$157	1-216-329-11					3.5401	1-216-837-11		22K		1/10W
													1 117 323 11	ALIAN CALE	4./A	35	1/10#	35402	1-216-081-00	RES-CHIP	22 <b>K</b>	5%	1/10W
92324	1-216-295-91				į	33235	1-216-322-11				1/10W	25300	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	35403	1-216-829-11	USMAL COTA	,		
R2927	1-216-295-91		0			33236	1-216-322-11		1 28		1/10₩	35301	1-216-829-11					38404	1-215-329-11				1, 10%
32930	1-216-295-91					33237	1-216-797-11		10		1/10%	R5302	1-208-306-11				1/10W	. R5405	1-216-829-11		4. %		1/10W
32333	1-216-295-91	SHORT CHIP	0			33238	1-216-797-11				1/10W	R5303	1-208-324-11					25407	1-216-854-11		4. "R		1/10W
32936	1-216-295-91	SHORT CHIP	0			33305	1-216-025-11	RES-CHIP	100	35	1,/10W	35304	1-208-806-11				1/10%	25408	1-216-825-11		560K		
32939	1-216-295-91	CIES MESES	3			33306	1-216-025-11	RES-CHIP	100	žk	1/10W	*****									4.40	20	47 <b>49 F</b>
R2942	1-216-295-91		0			R3312	1-216-325-11		2.2K		1/10%	R5305	1-208-852-11	METAL CHIP	320K	0.5%	1/10W	35409	1-208-802-11	METAL CHIP	5.3K	0.5%	1/10%
32945	1-216-295-91		٥			33313	1-216-825-11		2.2X		1/10₩	R5306	1-208-302-11					R5410	1-208-798-11	METAL CHIP	4.78	0.5%	1/10%
R3000	1-216-025-11		100 5	a 1/	1100	R3314	1-216-825-11				1/10W	R5307	1-216-041-00		470	5%	1/10W	R5411	1-216-061-91	RES-CHIP	3.3x	5%	1/10W
R3001	1-216-023-11		75 5			R3318	1-216-025-11				1/10W		1-216-295-91		0			R5413	1-208-802-11				
82001	1-210-322-00	VP0-CUIL	,,,,,	13 4/	104	10310	2 220 023 14	TOD CHIL	.,,		2/ 2011	R5309	1-208-824-11	METAL CHIP	56K	0.5%	1/10₩	R5414	1-249-383-11	CARBON	1.5		
R3009	1-216-025-11	RES-CHIP	100 5	1/	100	R3319	1-216-025-11	RES-CHIP	100	58	1/10W	R5310	1-208-830-11	MESSAT CHIER	100	0 50	4.740-						
R3010	1-216-022-00	RES-CHIP	75 5	1/	10%	R3320	1-216-025-11	RES-CHIP	100	53	1/10₩		1-216-045-00					35415	1-249-389-11		4.7		
R3011	1-216-025-11	RES-CHIP	100 5	k 1/	10W	R3403	1-216-821-11	METAL CHIP	1.8	5%	1/10W		1-208-832-11				1/10W	35416	1-215-888-00	METAL OXIDE	220	5%	2₩
R3012	1-216-022-00	RES-CHIP	75 5	1/	109	33500	1-216-834-11	METAL CHIP	12₹	58	1/10₩	R5214	1-208-840-11		120K		-, -, -,	35417	1-208-798-11		4.7K	0.5%	1/10W
R3013	1-216-025-11	RES-CHIP	100 5	1/	10W	R3501	1-216-834-11	METAL CHIP	12K	58	1/10W		1-216-043-91		270K				1-214-799-21		1.3		
												19-27	1-619-040-91	VES-CUIL	560	38	1/10₩	R5421	1-214-798-21	METAL	1.3	18	1/2₩
R3014	1-216-022-00	RES-CHIP	75 5	,	10%	R3504	1-216-825-11					R5315	1-216-057-00	RES-CRIP	2.2K	53	1/100	35904	1 016 040 14				
R3015	1-216-022-00	RES-CHIP	75 5		i	R3505	1-216-825-11			58	1/10W		1-216-345-11		100K				1-216-049-11		1K		
R3016	1-216-025-11	RES-CHIP	100 5	1/	10W	R3603	1-216-295-91	SHORT CHIP	0				1-208-806-11						1-216-049-11		1K		-,
R3017	1-216-022-00	RES-CHIP	75 5	1/	10%	R5102	1-208-814-91	METAL CHIP	22K	0.5%	1/10W	R5319	1-208-840-11	METAL CHID	2708	0.J3	1/100	i	1-216-089-91		47K		
R3018	1-216-025-11	RES-CHIP	100 5	1/	10W	R5103	1-218-833-11	METAL CHIP	270	0.5%	1/10W	R5320	1-216-833-11	METAL CRIP	108	53	1/10%		1-216-049-11		1K		
						2012	4 000 014 01		20-	A =1	4 /1 012					,,	1/10#	K3808	1-216-049-11	RES-CHIP	18	5%	1/10W
R3019	1-216-022-00		75 5		10W	R5107	1-208-814-91					R5321	1-216-937-11	METAL CHIP	22K	58	1/10W	R5309	1-216-073-91	225-525	10K		1/IOW
R3020	1-216-025-11		100 5			R5111	1-208-814-91				1/10W	R5322	1-216-320-11	METAL CHIP	320	53	1/10W	1	1-216-841-11		47K		L/10 <b>W</b> L/10W
R3021	1-216-022-00		75 5			35112	1-218-875-11				1/10%	R5324	1-208-810-11	METAL CHIP	15K (	3.5%	1/10W		1-216-917-11		470		L/10W L/10W
R3022	1-216-025-11		100 5		10₩	R5118	1-249-411-11				1/4%		1-209-312-11						1-216-850-11		270K 3		L/10W
R3023	1-216-022-00	RES-CHIP	75 5	1/	10₩	R5119	1-216-844-11	METAL CHIP	54K	38	1/10%		1-216-845-11						1-216-073-91		10K		
R3024	1-216-025-11	RES-CHIP	100 5	it 1/	100	R5122	1-216-821-11	METAL CHIP	1.8	5%	1/10W	R5327	1-216-472-00	WERT OVERS	70 .	2	24						
R3025	1-216-022-00	RES-CHIP	75 5	1/	10W	*R5125	1-216-836-11	METAL CHIP	18K	53	1/10W	R5328	1-216-372-00						1-216-073-91		10K 5	j} 1	L/10W
R3026	1-216-022-00	RES-CHIP	75 5	1/	/10W	R5126	1-249-406-11	CARBON	120	5%	1/4W	*****	1-216-033-00 1 1-216-033-00		220 5				1-216-825-11		2.2K 5		/10#
R3027	1-216-025-11	RES-CHIP	100 5	1/	/10W	R5127	1-216-025-11	RES-CHIP	100	53	1/10W				220 3				1-216-821-11		1K 5	B 1	./10¥
33028	1-216-022-00	RES-CHIP	75 5	1/	/10W	R5128	1-216-909-11	METAL CHIP	100	53	1/10%	R5333	1-208-806-11	METAL CHIP	10K 0	.35	1/10%	R5878	1-216-820-11	ETAL-CHIP	920 3		/10W
												20303	1-208-320-11	METAL CHIP	39K (	.55	1/10W	25879	1-216-309-11	ETAL CRIP	100 5	* 1	/10W
R3029	1-216-045-00		680 5		/10W	R5129	1-216-809-11		100		1/10W	R5334	1-208-334-11	METAL CRIP	150K A	5.9	1/109	R5880					
R3030	1-216-022-00		75 5		/10W	35130	1-216-809-11		100		1/10W	R5335	1-208-818-11	METAL CHIP	33K 0	.53	1/1GW		1-216-809-11		100 5		/10%
R3031	1-216-022-00		75 5		/10W	R5131	1-216-821-11		1.8		1/10W		1-216-057-00		2.2K 5			3	1-216-833-11		10K 5		/10%
R3032	1-216-022-00		75 5			R5132	1-216-809-11		100		1/10W		1-218-867-11					5	-216-833-11 N		10K 5		/10W
R3033	1-216-025-11	RES-CHIP	100 5	3 1/	/10M	R5133	1-216-809-11	METAL CHIP	100	58	1/10W		1-249-413-11		470 5				1-216-841-11 8 1-216-809-11 8	RPAT CHIP	7/K 5	5 <u>1</u>	/10W /10W
R3034	1-216-022-00	RES-CHIP	75 5	5% 1/	/10W	R5137	1-216-809-11	METAL CHIP	100	53	1/10W								> > 2	wand blife .	.00 3	• 1	/ ±0#
R3035	1-216-025-11		100			R5138	1-216-809-11		100		1/10W		1-216-057-00		2.2 <b>K</b> 5			R5387	-216-809-11 y	ETAL CHIP	00 5	<b>i</b> 1	/10%
R3036	1-216-022-00		75		/10#	35139	1-216-921-11		1K		1/10W		1-216-089-91 3		47X 5				-216-809-11 9		100 5		/10W
R3037	1-216-045-30		680		/10W	35140	1-216-821-11		13		1/10W		1-208-918-11 y		33 <b>K</b> 0			35389	-208-806-11 M		OK 3		
R3218	1-216-821-11		1K			35146	1-216-025-11				1/10W		1-209-909-11 y						-216-933-11 X				/10%
												35344	1-008-320-11 y	EIAL CEIP	19K 0	. 11	1/10 <b>W</b>	35335	-316-833-11 H	ETAL CHIP	.0 <b>K</b> 5	. :	/12W





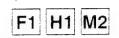
REF NO	. PART.NO	DESCRIPT	ON		REMARK	REF.NO.	PART.NO	DESCRIP	TION	,	REMARK
R5898	1-216-832-1	1 METAL CHIP	9.2	K 5%	1/10W	X3200					IL TAIN
R5899		1 METAL CHIP		M 58	1/10W			1 VIBRATOR,			
R6200		1 METAL CHIP			-,	X5800	1-767-127-1	1 VIBRATOR,	CERAMIC		
R6201		1 METAL CRIP			% 1/10W % 1/10W	AG					
R6202	1-249-395-1		15	5%	1/4W	A 50	ard, Variant P	arts (KV-28	FQ70B)		
	1 249 333 1.	4 CARDON	13	34	1/44		< TUNER	>			
R7007	1-216-049-1		1 <b>K</b>	5%	1/10W						
R7018	1-216-025-11		100	5%	1/10₩	TU1000	8-598-535-20	FRONTEND B	TF-EF411		
R7023		METAL CHIP	12K	5%	1/10%						
R7034	1-216-025-11	RES-CHIP	100	5%	1/10W	A Boa	rd, Variant Pa	rts (KV-28F	Q70E)		
37035	1-216-025-11	RES-CHIP	100	5%	1/10%						
							< TUNER	>			
RT048	1-216-025-11		100	58	1/10W						
37050		METAL CHIP	10K	58	1/10W	TU1000	8-598-533-10	FRONTEND 3	PF-EC411		
37051	1-216-025-11		100	5₹	1/10W						
R7052	1-216-025-11		100	58	1/10W	A Boar	rd, Variant Pa	rts (KV-28F	Q70U)		
37053	1-216-049-11	RES-CHIP	1K	58	1/10₩		4 20000				
R7054	1-216-847-11	כומה וניישע	150K	1	1.71.042	İ	< TUNER	>			
R7056	1-218-867-11				1/10W 1/10W	TU1000	9_998_500_10	FRONTEND BY	P-2001		
R7057	1-216-842-11		56K	5%	-,	101000	3 230-323-10	SKONIEND BI	11-20011		
R7058	1-216-049-11		1K	5%	1/10₩	* A-13	02-133-A C	Board Com	ploto		0-10 T 1 G
R7065	1-216-821-11		1K	58 58	1/109			Joana, Con	piete		
		AGIAN CHIL	IR	74	1/10₩		4-382-854-01	SCREW (M3X8	), P, SW (+	-)	
R7066	1-216-809-11	METAL CHIP	100	5%	1/10W						
R7068	1-218-877-11	METAL CHIP	18K	0.5%	1/10W	-	< CAPACIT	MOR >			
R7070	1-216-817-11	METAL CHIP	470	5%	1/10%	!					
R7071	1-216-817-11	METAL CHIP	470	5%	1/10W	C7303	1-162-909-11	CERAMIC CHI	P 42F	0.25PI	50V
R7072	1-216-817-11	METAL CHIP	470	5%	1/10W	C7304	1-107-967-11	ELECT	107	20.009	400V
						C7305	1-136-207-11	MYLAR	0.047UF	5.00%	630V
R7073	1-216-041-00	RES-CHIP	470	5%	1/10W	C7306	1-115-416-11	CERAMIC CHI	0.00107	5.00%	
R7074	1-216-043-91	RES-CHIP	560	5%	1/10W	C7308	1-162-909-11	CERAMIC CHI	P 4PF	0.25PE	7 50V
R7075	1-216-817-11	METAL CHIP	470	5%	1/10W						
R7076	1-216-041-00	RES-CHIP	470	58	1/10W	C7309	1-164-156-11	CERAMIC CHI	0.10F		25V
27077	1-216-043-91	RES-CHIP	560	5%	1/10W	C7310	1-162-923-11	CERAMIC CHI	47PF	5.00%	50V
						C7325	1-162-909-11	CERAMIC CHIE	4PF	0.25PF	50V
R7078	1-216-817-11	METAL CHIP	470	5%	1/10W	C7326	1-115-416-11	CERAMIC CHIE	0.001UF	5.00%	25 <b>V</b>
R7079	1-216-041-00	RES-CHIP	470	5₹	1/10W	C7329	1-107-967-11	ELECT	1UF	20.00%	400V
R7080	1-216-043-31	RES-CHIP	560	5%	1/10W						
R7081	1-216-317-11		470	5%	1/10W	C7330	1-136-207-11	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.947UF	5.00%	630V
R7382	1-208-782-11	METAL CHIP	18	0.5%	1/10W	C7331	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
						C7333	1-164-156-11				25V
R7088	1-208-783-11		1.1K	0.5%	1/10W	C7334		CERAMIC CHIP	47PF	5.00%	50V
R7089	1-216-819-11		580	5%	1/10W	C7350	1-128-551-11	ELECT	220F	20.00%	63V
R7090	1-216-819-11		680	5%	1/10W						
R7091	1-216-819-11		680	5%	1/10W	C7351	1-152-909-11	CERAMIC CHIP	492	0.25PF	50V
R7092	1-216-295-91	SHORT CHIP	0			C7352	1-115-416-11			5.00%	25V
						C7354		ELECT	470F	20.00%	35V
R7093	1-216-295-91		0			C7355		ELECT	10F	20.00%	400V
R7094	1-216-295-91		0			C7356	1-136-207-11	MYLAR	0.047UF	5.00€	630V
R7095	1-216-295-91		0								
R7096	1-216-803-11		33	5%	1/10W	C7358	1-162-909-11			0.25PF	50V
R7097	1-216-803-11	METAL CHIP	33	5%	1/10W	C7359	1-164-156-11				25V
						C7360		CERAMIC CHIP	47PF	5.00%	50 <b>V</b>
R7098	1-216-803-11	METAL CHIP	33	5%	1/10W	C7378		CERAMIC	680PF	10.00%	2KV
						C7379	1-115-350-51	CERAMIC	0.0047UF		2KV
	< CRYSTAL	>				08111					
40354						C7380			22UF	20.00%	
X2000	1-760-628-11	VIBRATOR, CRY	STAL			07384	1-162-911-11	DERAMIC CHIP	952	7.50PF	30 <b>7</b>

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Note: The components dentified by shading and marked .5 are critical for safety.
Replace only with the part numbers
specified in the parts list.



REF.NO.	PART.NO	DESCRIPTION			REMARK	REF.NO.	PART.NO	DESCRIPTION			REMARK
C7385	1-162-913-11	CERAMIC CHIP	3PF		0.50PF 50V	R7325	1-249-417-11	CARBON	1K	5%	1/4W
7387	1-162-911-11	CERAMIC CHIP	6PF		0.50PF 50V	R7328	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
7388	1-162-913-11	CERAMIC CEIP	SPF		0.50PF 50V	R7329	1-260-095-11	CARBON	470	5%	1/2W
7390	1-162-911-11	CERAMIC CHIP	6PF		0.50PF 50V	R7330	1-215-903-11	METAL OXIDE	68K	5%	2W
7391		CERAMIC CHIP			0.50PF 50V	R7334	1-216-819-11	METAL CHIP	680	5%	1/10W
	< CONNECT	YOR >				R7335	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
						R7350	1-249-417-11	CARBON	1K	5%	1/4₩
N7300	* 1-564-508-11	PLUG, CONNECT	TOR SP			R7356	1-216-824-11	METAL CHIP	1.3K	5%	1/10W
N7301	* 1-564-512-11	PLUG, CONNECT	OR 3P			37357	1-260-095-11	CARBON	470	5%	1/29
CN7311	1-695-915-11	TAB (CONTACT)				37359	1-215-903-11	METAL OXIDE	68K	5₹	2W
N7333	1-695-915-11	TAB [CONTACT]									
						R7363	1-216-819-11	METAL CHIP	580	58	1/10W
	< DICCE >	•				R7364	1-216-824-11	METAL CHIP	1.8K	53	1/10W
						37373	1-216-322-11	METAL CHIP	1.5%	58	1/10%
7300	9-719-911-19	DIODE 188119-	-25			37374	1-215-819-11	METAL CHIP	580	33	1/10W
7325	3-719-911-19	DIGDE 188119	-25			37375	1-216-839-11	METAL CHIP	33K	53	1/10%
7350	8-719-911-19	DIODE 13S119	-25								
7375	8-719-991-33	DIODE 1881331	-77			R7376	1-216-833-11	METAL CHIP	10 <b>K</b>	5%	1/10%
7376		DICOE 1881331				R7377	1-216-834-11	METAL CHIP	12 <b>K</b>	53	1/19W
						87379	1-216-833-11	METAL CHIP	10K	5%	1/10W
7373	8-719-109-89	DIODE RD5.6ES	B2			R7380	1-216-833-11	METAL CHIP	10K	5≹	1/10W
7379	8-719-109-89	DICDE RD5.6ES	332			R7381	1-216-833-11	METAL CHIP	10K	5%	1/10W
	< IC >					27382	1-202-549-00	SOLID	100	20%	1/2W
	( 20 /					R7383	1-216-349-00		1	58	19
C7300	8-759-360-83	TC TD&61210/2	T.A			R7385	1-202-549-00				1/2₩
C7325	3-759-360-83					R7387	1-247-735-11		47	53	1/2W
IC7350		IC TDA61110/				R7389	1-247-881-00		120K		1/4W
	< SOCRET	>				R7390	1-249-417-11	CARBON	18	5%	1/4W
						R7391	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
17376	A* 1-45]-544-11	SOCKET. CRT	78:51			R7392	1-216-819-11		680	5%	1/10W
5.100 #5.KV	TO THE OWNER WAS A COMPANY OF THE	Andrea and and and and	146-1-1-18-1-2-14	e Je volative	CONTRACTOR CONTRACTOR	R7393	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
	< COIL >					R7394	1-249-417-11	CARBON	1 <b>K</b>	5%	1/4W
L7375	1-414-928-21	INDUCTOR	179			R7395	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
	A 1-532-637-00		13.		100 mg	87396	1-216-819-11	METAL CHIP	680	58	1/10W
17378	1-414-928-21		::3		•	27397	1-216-923-11	METAL CHIP	1.5K	5%	1/10W
2,3,0	,					R7398	1-249-417-11		1K	5%	1/4W
	< TRANSIS	STOR >				R7399	1-216-824-11		1.8K		1/10W
27350	8-729-901-06	TRANSISTOR O	TA144EK				< RESISTO	OR VARIABLE >			
27352		TRANSISTOR T									
07353		TRANSISTOR T				RV7375	1-241-656-21	RES, ADJ, ME	PAL FII	M 110	М
27354		TRANSISTOR D						,,			
27355		TRANSISTOR T				* A-130	2-134-A F1	Board, Com	plete	107.T	
	< RESIST	OR >					4-206-220-01	HOLDER, LED			
							* 4-374-846-01	COVER, CAPAC	ITOR,	CAP TY	PE
JR7301	1-216-864-11	SHORT CHIP	3				< CAPACII	ror >			
R7300	1-249-417-11	CARBON	1K	5%	1/4₩						
R7303	1-216-324-11		1.5K		1/10W	C0982	1-104-665-11	ELECT	100UF		20.00% 25V
R7304	1-260-095-11			5%	1/2W	C0983	1-102-114-30	CERAMIC	470PF		10.00% 50V
27305	1-215-903-11		58K		27	00984	1-102-129-00	CERAMIC	0.010	F	10.00% 50V
37309	1-215-824-11				1/10W	C6400	1-113-924-11	CERAMIC	0 004	708	20.00% 250V
				- /							
37313	1-216-319-11	MEDAL CHIP	530	ži.	1.110%						



M2

IO. PARTINO	DESCRIPTION	REMARK	REF.NO.	PART NO	DESCRIPTION		REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK	REF NO.	PARTINO	DESCRIPTIO	ν	REM
				< RESISTO	R >			C0024	1-115-416-11	CERAMIC CHIP 0.301UF	5.00% 25V	FB0031	1-414-760-21	FERRITE	DUB	
< CONN	VECTOR >							C0025		CERAMIC CHIP 470PF	10.00% 50V	FB0032	1-414-760-21	FERRITE	OUR	
				1-216-864-11	anone arra	0		C0026		CERAMIC CHIP 470PF	10.00% 50V					
	11 PLUG, CONNECTOR 4P	AND CHICAGOS CONTRACTOR CONTRACTO	JR0901							CERAMIC CHIP 470PF	10.00% 50V		< IC >			
AT I-SHARE	15 4 PT L. COMMESSA (PORE)	Section 1	JR2901	1-216-864-11				C0027					(10)			
	is 1811 COMPLETON PET MAIN	0 57	JR2902	1-216-864-11	SHORT CHIP	0		C0028	1-126-934-11	RLECT 220UF	20.00% 16V			**	rCm / 3.1	
1-695-915-	11 TAB (CONTACT)											100001	8-759-699-33			
			R0901	1-218-867-11	METAL CHIP	6.8K 0.59	1/10W	C0029	1-164-360-11	CERAMIC CHIP 0.1UF	16V	100002	6-702-515-01			
4 5705	200		R0902	1-216-864-11		0		20030	1-164-360-11	CERAMIC CHIP 0.10F	16V	100003	3-759-672-39	IC PST573IM		
< DIOD	Æ >		R0911	1-216-833-11		10K 5%	1/10₩	C0031	1-164-360-11	CERAMIC CHIP 0.1UF	16V	100004	3-759-665-11	IC LM393DT		
			1	1-216-835-11			1/100	00032		CERAMIC CHIP 3.13F	16V	100005	6-702-395-01		E-YFTOT	
	-89 DICDE RD5.6ESB2		R0912				1/10W				5.00% 25V					
3-719-082-	12 DIODE TLEKS190		20913	1+216-327-11	METAL CHIP	3.3K 5%	1/10#	20034	1-115-416-11	CERAMIC CHIP 0.001UF	3.305 239	********	5-704-221-31	to worden	076-20100	
			:									100006				
< FUSE	4 >		30914	1-216-323-11	WEINT CHIB	1.5K 33	1/10#	C0035		CERAMIC CHIP 3 301UF	5.00% 25V	100007	3-759-271-36			
			32301	1-249-406-11	TARBON	120 3%	1749	00036	1-115-416-11	CERAMIC CHIP 0.0017F	5.00% 25V	100008	3-759-392-01			
	11 mon (I B C ) E3/2500		32902	1-249-406-11	TARBON	120 5%	1.49	30037	1-115-416-11	CERAMIC CHIP 3.0010F	3.00% 25V	. 100013	3-159-523-81	10 TC74VEC01	PT (ZI.	
	-11 FUSE (H.B.C.) 5A/250V		32903	1-249-406-11		120 88	1,4%	00038		CERAMIC CHIP 0.00109	5.00% 35V					
△ 1-533-725-	-11 FUSE HOLDER (F6400)					120 5%				CERAMIC CHIP 3.10F	10.00% 16V		< TRANSI	7707 >		
			R2304	1-249-406-11		240 01	- 1 TM	20039	1-101-050-11	CANADA CAIR 1.13	10.003 107					
< 10 >	>												2 200 101 22	-	m=0 : : 1	
			32909	1-216-853-11	METAL CHIP	470K 5%	1/10%	30042	1-115-416-11	CERAMIC CHIP 3.3019F		20002	3-729-424-08			
6-600-129-	-01 IC RPM7140-H5		R2910	1-216-853-11	METAL CHIP	470K 5%	1/10W	20047	1-115-416-11	CERAMIC CHIP 0.0010F	5.00% 25V	20003	3-729-424-08			
2-300.123	01 10 10111111		32917	1-216-821-11	METAL CHIP	1K 53	1/10%					20006	3-729-010-29	TRANSISTOR :	SD601-RST1	
			R2918	1-216-821-11		1K 5%	1/10%		< CONNECT	ror >		20067	3-729-027-44	TRANSISTOR :	TC114TKA-T	.46
< RESI	ISTOR >		142720	1 210 021 11			-,					20008	3-729-027-44	TRANSISTOR :	TC114TKA-T	46
				. aurman				CNOOOL	+ 1 703 407 11	CONNECTOR, BOARD TO !	ank acen	20000				
1-247-807-			i	< SWITCH	>						CARD 40F	20000	3-729-027-44	mnaucremen '	980114 <b>081.</b> 01	16
A 1-202-719-	-00 SOLID IN 10	1/29	1					CN0003	1-317-040-31	PLUG, CONNECTOR 3P		20009				
			50900	1-692-431-21	SWITCH, TACT	ILE						20010	3-729-027-44			.96
< SWIT	m/ra >		30901	1-692-431-21	SWITCH, TACT	TLE			< DIODE :	>		20011	3-729-010-29	TRANSISTOR !	ISD601-RST1	
V 3/12/	100		50902	1-692-431-21	SWITCH, TACT	ILE						20012	3-729-424-03	TRANSISTOR	N2111	
	24	Committee of the second	30903	1-692-431-21				D0001	5-500-079-01	DIODE BAS40-05E6327		20013	3-729-421-22	TRANSISTOR	N2211	
W 1-2/1-433	-21 SWITCE, PUSE (AC POWER)		S0904	1-692-431-21				D0201		DIODE UDZSTE-175.6B						
			50904	1-092-431-21	SMIIUM, INC.	Line							< RESIST	CD >		
< VAR	ISTOR >							D0202		DIODE UDZSTE-175.6B			( 100131	J. A.		
			S0905	1-692-431-21	SWITCE, TAC	TILE		20203		DIODE UDZSTE-175.6B						
0 A 1-807-830	-11 VARISTOR (EREVI40621)							D0204	8-719-069-55	DIODE UDESTE-175.6B		R0001	1-216-319-11			
	TOTAL PROPERTY AND AND AND AND AND AND AND AND AND AND	ON COMPANY OF THE PROPERTY OF THE PARTY OF T	* A-14	104-964-A M2	Board, Co.	nplete						R0002	1-216-824-11	METAL CHIP	1.8K 5%	1/10%
1202-135-A	H1 Board, Complete							50301	8-719-069-56	DIODE UDZSTE-176.2B		R0003	1-216-809-11	METAL CHIP	100 5%	1/10%
1502-155-A	The Board, Complete			1-540-151-21	SOCKET, IC			******				80004	1-216-813-11	METAL CHIP	220 5%	1/10%
				1 340 101 11	500000) 15				< FERRIT	9 2010 N		30011		METAL CHIP	100 5%	
< CAP	PACITOR >			4 (1171.01	707 >				C SERRAT	E DEAU >		20021	- 210 000	ADDRES ON A	200 27	27 200
				< CAPACI	ICK >										207 75	1/10
1-162-964	-11 CERAMIC CHIP 0.0010F	10.00% 50V	i					FB0003	1-216-864-11			R0014		METAL CHIP	22X 5%	
1-126-960	-11 ELECT 1UF	20.00% 50V	C0001	1-107-926-11	CERAMIC CHI	2 0.10F	10.00∜ 16V	FB0004	1-216-864-11	SHORT CHIP		30016		METAL CHIP	100 5%	
	-11 ELECT 1UF	20.00% 50V	C0002	1-107-826-11	CERAMIC CHI	9 0.10F	10.00% 16V	FB0005	1-216-295-91	SHORT CHIP		R0017	1-216-943-11	METAL CHIP	68K 5%	1/10
	-11 CERAMIC CHIP 0.001UF	10.00% 50V	C0004	1-164-360-11	CERAMIC CHI	0.105	16V	FB0006	1-412-006-31			R0018	1-216-809-11	METAL CHIP	100 5%	1/10
1-102-304	-II CANNIC CAIL V. VOICE	20.000 300	C0006	1-126-934-11	VI.ECT	220UF	20.00% 16V	FB0007	1-412-006-31			R0019	1-216-833-11	METAL CHIP	10K 5%	1/10
			1		CERAMIC CHI		10.00% 16V	\$ B000 /	1-415-006-31	INDUCTOR 1901		20013	1 210 033 11	ALL AND COLD	1011 07	-,
< CON	NNECTOR >		C0007	1-10/-526-11	CENAMIC COL	P 0.10E	10.002 704								1	1/10
							40.400.400	£B0008	1-216-295-91			RC020		METAL CHIP		
0 1-779-947	7-11 TERMINAL BLOCK, S		C0008	1-107-826-11	CERAMIC CHI	P 0.10F	10.00% 16V	FB0009	1-412-006-31	INDUCTOR 100H		R0022	1-216-809-11	METAL CHIP	100 5%	
9 * 1-564-512	2-11 PLUG, CONNECTOR 9P		C0009	1-165-128-11	CERAMIC CHI	P 0.220F	16V	FB0010	1-216-295-91	SHORT CHIP 3		R0023	1-216-845-11	METAL CHIP	100K 5%	1/10
	9-11 PLUG, CONNECTOR SP		C0010	1-162-927-11	CERAMIC CHI	P 130PF	5.00% 50V	FB0011	1-216-295-91			R0027	1-216-821-11	METAL CHIP	1K 5%	1/10
7-204-309	TT TROOK CONNECTOR OF		C0012		CERAMIC CHI		5.00% 50V	FB0012	1-412-006-31			R0028		METAL CHIP		
					CERAMIC CHI		16V	FE0012	1-412-006-31	INDUCTOR 100A		20020		-min cart	2000	-, 20
< 010	ADE >		C0013	1-104-350-11	CERMMIC CHI	2 0.102	T0A								440	. 10 -
								FB0015	1-216-295-91	SHORT CHIP		R0029		METAL CHIP		
3-719-923	3-60 DIODE MTZJ-T-77-9.1A		C0015	1-135-834-91	CERAMIC CHI	P 2.2E+06PF	6.3V	FB0016	1-216-295-91	SHORT CHIP 0		R0030	1-215-809-11	METAL CEIP	100 5%	
			C0016	1-165-128-11	CERAMIC CHI	P 0.22UF	16V	FB0017		SHORT CHIP 0		30032	1-216-809-11	METAL CHIP	100 5%	1/10
. 20	CPTDR \		C0017		CERAMIC CEL		5.30% 50V	FB0018		SHORT CHIP )		R0033		METAL CHIP	100 5%	1/10
< SOC	CKET >		C0019		CERAMIC CE		16V					R0034		METAL CHIP		
							5.00% 50V	FB0019	1-216-564-11	SHORT CHIP 3		1 70034	510-152-17	Marke Agri	24h V.	2. 1/10
	4-11 JACK		C0020	1-152-923-11	CERAMIC CE	r 4122	3.301 30V					!				
1-150-264			1					FB0020	1-216-364-11	. SHORT CHIP		. 30035		METAL CHIP		
. 1-150-264																
1 1-750-264			20021 20022	1-107-326-11	CERAMIC DE		10.00% 16 <b>V</b> 3.00% 25V	FB0021	1-216-864-11	SHORT CHIP		70037 70039		METAL CHIP METAL CHIP		

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REF.NO.	PART.NO	DESCRIPTION			REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R0040	1-216-309-11		100	5%	1/10W	R0118	1-216-813-11	METAL CHIP 220	5% 1/10W
	1-216-825-11		2.2K		1/10W	R0119	1-216-813-11	METAL CHIP 220	5% 1/10W
R0041	1-218-867-11	METAL CHIP			1/109	R0120	1-216-813-11	METAL CHIP 220	5% 1/10W
R0042		METAL CHIP	33	5%	1/10W	R0121	1-216-813-11	METAL CHIP 220	5% 1/10W
R0043		METAL CHIP	100	5%	1/10W	R0122	1-216-813-11	METAL CHIP 220	5% 1/10W
R0044	1-216-809-11	WEING CHIL	200	••	•,				
R0045	1-216-303-11	METAL CHIP	33	5%	1/10W	R0123	1-216-813-11		5% 1/10W
R0046	1-216-303-11	METAL CHIP	33	5%	1/10W	R0301	1-216-833-11	METAL CHIP 10K	5% 1/10W
R0047	1-216-310-11	METAL CHIP	120	5%	1/10W	20302	1-216-833-11	METAL CHIP 10K	E% 1/10W
R8048	1-216-309-11	METAL CHIP	100	5%	1/10W	30303	1-216-836-11	METAL CHIP 18K	5% 1/10W
10049	1-216-833-11	METAL CHIP	10K	5 %	1/10W	30304	1-218-367-11	METAL CHIP 6.3K	3.3% 1/10 <b>W</b>
0050	1-216-810-11		120	58	1/10W		< RESISTO	K Lair >	
10051	1-216-835-11	METAL CHIP	15K	5%	1/10W	200101	1-233-411-11	RES, CHIP NETWORK	223 32161
10052	1-216-310-11	METAL CHIP	120	5%	1/10W	RB0101 RB0102	1-233-411-11	RES, CHIP NETWORK	
10053	1-216-809-11	METAL CHIP	130	53	1/10W		1-233-411-11	RES. CHIP NETWORK	
R0054	1-216-309-11	METAL CHIP	100	5%	1/10W	RB0103	1-233-411-11	RES, CHIP NETWORK	
					3 :100	RB0104	1-233-411-11	RES, CHIP METWORK	
R0055	1-216-809-11	METAL CHIP	100	5%	1/10%	RB0105	733-411-11	and, out? sameout	
30056	1-216-833-11	METAL CHIP	19K	5%	1/10₩		1_000.411.11	RES, CHIP METWORK	220 (3216)
20057	1-216-809-11		100	5%	1/10W	RB0107		RES, CHIP NETWORK	
R0058	1-216-823-11	METAL CHIP	1.5X		1/10W	RB0108	. 1-233-411-11	SES, CEIF MEINCAN	224 (2224)
R0059	1-215-841-11	METAL CHIP	47K	5%	1/10₩		< CRYSTAL	.>	
2000	1-216-833-11	METAL CHIP	10 <b>K</b>	5%	1/10%		1 2012031		
R0060	1-216-833-11		10K	5%	1/10W	X0001	1-578-774-71	VIBRATOR, CRYSTAL	
R0061			10K	5%	1/10W				
R0062	1-216-933-11		10K	58	1/10W	* A-130	00-627-A VM	Board, Complet	e
R0063	1-216-833-11		10K	5%	1/10W				
R0064	1-219-833-11	WPIND CHIL	LVI	30	2,24"		4-382-854-01	SCREW (MGX8), P, S	W (+)
R0065	1-216-833-11	METAL CHIP	10K	5%	1/10W				
R0066	1-218-871-11		10K	0.59	1/10₩		< CAPACI	TOR >	
R0067	1-216-833-11		10K	5%	1/10%				20 202 107
30068	1-216-833-11		10K	5%	1/10W	C7401	1-126-935-11		
R0069	1-216-833-11		10K	5%	1/10W	C7403	1-126-935-11		
						C7404	1-115-339-11		
R0070	1-215-309-11	METAL CHIP	100	5%	1/10W	C7405	1-126-933-11		
R0071	1-216-309-17		100	5%	1/10W	C7406	1-126-935-11	ELECT 4700	7 20,00% 16V
30072	1-216-809-11		100	5%	1/19W				- 12 200 2000
R0073	1-216-809-11		100	5%	1/10W	C7407	1-107-364-11		
R0074	1-216-309-11		100	5%	1/10W	C7408	1-107-364-11		
						. C7409	1-107-649-11		
R0075	1-216-809-1	METAL CHIP	100	5%	1/10%	C7410	1-130-471-00		
20076	1-216-821-1		1K	5%	1/10W	C7411	1-130-471-00	MYLAR 0.00	107 5.00% 50V
R0078	1-216-817-1		470	5%	1/10W				
R0079	1-216-829-1	_	4.7	K 5%	1/10W	C7412	1-126-935-11		
R0082	1-216-864-1		0			C7413	1-126-935-11		
	1 220 504 1					C7414	1-107-652-11		
80083	1-216-809-1	1 METAL CHIP	100	5%	1/10W	C7415	1-107-363-9		680F 10.00% 200V
R0084	1-216-809-1				1/10W	C7418	1-163-021-9	CERAMIC CHIP 3.33	JE 10.00% 50V
R0110	1-216-813-1	-			1/10₩	!			
R0111		1 METAL CHIP		0 5%		C7421	1-163-251-1	CERAMIC CHIP 1001	5.00% 50V
R0111		1 METAL CHIP		0 5%		1			
							< CONNE	CTUR >	
20113		II METAL CHIE		0 5%		: CN7142	* 1-564-508-1	1 PLUG, CONNECTOR	52
R0114		11 METAL CHIE		0 58				1 PLUG, CONNECTOR	
R0115		11 METAL CHI		0 51				CONNECTOR BOAPS	
20116		11 METAL CHI		10 31			, ., .		
30117	1-216-313-	11 METAL CHI	2 22	19 51	1,110%				

REF.NO.	PARTINO	DESCRIPTION		REMARK	REF.NO.	PART.NO	DESCRIPTION	١		REMA
	< DIODE >	•			R7420 R7421	1-249-421-11 1-249-389-11	CARBON	2.2K 4.7	5%	1/4W 1/4W
D7400	8-719-991-33	DIODE 1SS133T-	-77		R7422	1-249-405-11		100	5%	1/4W
D7401	8-719-991-33	DIODE 1SS133T-	-77		R7423	1-215-915-11		470	51	311
D7402	1-535-303-00	LEAD, JUMPER	(5.0MM)		R7427	1-216-025-11	RES-CHIP	100	5%	1/10₩
07403	8-719-991-33	DIODE 1SS133T-	-77							
D7404	8-719-991-33	DIODE 1SS133T-	-77		R7428	1-216-033-00		220	5%	1/10W
					37429	1-216-033-00	RES-CHIP	220	53	1/10W
07405	3-719-924-11	DIODE MTZJ-T-7	7-22		37432	1-216-065-91	RES-CHIP	4.7K	53	1/10W
D7406	8-719-924-11	DIODE MTZJ-T-7	7-22		37433	1-249-395-11	CARBON	15	5%	1/4%
3,100	,				RT434	1-249-395-11	CARBON	15	5%	1/4%
	< FERRITE	BEAD >								
					27435	1-216-031-00	RES-CHIP	130	53	1/13%
FB7400	1-435-303-30	LEAD, JUMPER	5 (MM)		87436	1-216-049-11	RES-INIP	1K	53	1/10%
FB7401		LEAD, JUMPER			:					
22/402		Tanb, John III	, 5 . 5.41		1					
	< 1011 >				1					
17400	1-414-934-21	INDUCTOR	10UB		İ					
17402	1-414-934-21		10UH							
17403	1-414-934-21		100H							
					į					
	< TRANSIS	STOR >								
Q7400	8-729-010-29	TRANSISTOR MSE	601-RST	1						
Q7401	8-729-010-29	TRANSISTOR MSE	601-RST	1						
27402	9-729-010-29	TRANSISTOR MSI	601-RST	1						
27403	8-729-119-78	TRANSISTOR 250	2785-87	E						
27404	3-729-026-49	TRANSISTOR 25A	11037AK-	T146-R						
Q7405	8-729-026-39	TRANSISTOR 2SA	1933AS-Q	Ť						
Q7406	8-729-045-05	TRANSISTOR 25A	2005							
Q7407	8-729-045-04	TRANSISTOR 250	25511							
Q7408		TRANSISTOR 2SA								
Q7409	8-729-010-29	TRANSISTOR MSI	0601-RST	1						
	< RESISTO	OR >								
R7400	1-216-017-91	RES-CHIP	47 5	1/10W						
R7400 R7401	1-216-017-91 1-216-061-91	100 0001	47 5 3.3K 5	-, -, -,	TO THE TOTAL OF THE TAX AND A PARTY AND A					
		RES-CEIP	3.3K 5	-, -, -,						
R7401	1-216-061-91	RES-CHIP	3.3K 5	1/10W						
R7401 R7402	1-216-061-91 1-216-041-00	RES-CHIP RES-CHIP CARBON	3.3K 5	2 1/10W 14 1/10W 15 1/4W						
R7401 R7402 R7403	1-216-061-91 1-216-041-00 1-249-393-11	RES-CEIP RES-CEIP CARBON CARBON	3.3K 5 470 5 10 5	1/10W 18 1/10W 18 1/4W 18 1/4W						
R7401 R7402 R7403 R7404	1-216-061-91 1-216-041-00 1-249-393-11 1-249-413-11	RES-CHIP RES-CHIP CARBON CARBON RES-CHIP	3.3K 5 470 5 10 5 470 5	1/10W 18 1/10W 18 1/4W 18 1/4W						
R7401 R7402 R7403 R7404	1-216-061-91 1-216-041-00 1-249-393-11 1-249-413-11	RES-CEIP RES-CHIP CARBON CARBON RES-CHIP CARBON	3.3K 5 470 5 10 5 470 5	1/10W 1/10W 1/10W 1/4W 1/4W 1/4W 1/4W						
R7401 R7402 R7403 R7404 R7404	1-216-061-91 1-216-041-00 1-249-393-11 1-249-413-11 1-216-065-91 1-249-411-11	RES-CEIP RES-CHIP CARBON CARBON RES-CHIP CARBON RES-CHIP	3.3K 5 470 5 10 5 470 5 4.7K 5 330 5 150 5	1/10W 1/10W 1/10W 1/4W 1/4W 1/4W 1/4W	en en en en en en en en en en en en en e					
R7401 R7402 R7403 R7404 R7404 R7405 R7407 R7409	1-215-061-91 1-216-041-00 1-249-393-11 1-249-413-11 1-216-065-91 1-249-411-11 1-216-029-00	RES-CEIP RES-CHIP CARBON CARBON RES-CHIP CARBON RES-CHIP RES-CHIP	3.3K 5 470 5 10 5 4.7K 5 330 5 150 5 47 5	1/10W 1/10W 1/10W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W						
R7401 R7402 R7403 R7404 R7405 R7407 R7409 R7410	1-215-061-91 1-216-041-00 1-249-393-11 1-249-413-11 1-215-065-91 1-249-411-11 1-216-029-00 1-216-017-91	RES-CEIP RES-CEIP CARSON CARBON RES-CEIP CARGON RES-CEIP RES-CEIP RES-CEIP	3.3K 5 470 5 10 5 470 5 4.7K 5 330 5 150 5 47 5	14 1/10W 13 1/10W 13 1/4W 13 1/4W 13 1/4W 14 1/4W 15 1/4W 15 1/10W 15 1/10W						
R7401 R7402 R7403 R7404 R7405 R7407 R7407 R7410 R7411	1-215-061-91 1-216-041-00 1-249-393-11 1-249-413-11 1-215-065-91 1-249-411-11 1-215-023-00 1-216-017-91	RES-CEIP RES-CHIP CARBON CARBON RES-CHIP CARBON RES-CHIP CARBON RES-CHIP RES-CHIP RES-CHIP	3.3K 5 470 5 10 5 470 5 4.7K 5 330 5 150 5 47 5	14 1/10W 15 1/10W 15 1/4W 15 1/4W 15 1/4W 15 1/4W 15 1/4W 15 1/4W 15 1/10W						
R7401 R7402 R7403 R7404 R7405 R7407 R7409 R7410 R7411	1-215-061-91 1-216-041-00 1-249-393-11 1-249-413-11 1-215-065-91 1-249-411-11 1-215-023-00 1-216-017-91 1-216-017-91	RES-CRIP RES-CHIP CARBON CARBON RES-CHIP CARBON RES-CHIP RES-CRIP RES-CRIP RES-CRIP CARBON	3.3K 5 470 5 10 5 4.7K 5 330 5 47 47 5 47 5 560 5	14 1/10W 15 1/10W 15 1/4W 15 1/4W 15 1/4W 15 1/4W 15 1/4W 15 1/4W 15 1/10W						
R7401 R7402 R7403 R7404 R7405 R7407 R7409 R7410 R7411 R7412 R7413	1-215-061-91 1-216-041-00 1-249-393-11 1-249-413-11 1-215-065-91 1-249-411-11 1-215-029-00 1-216-017-91 1-216-017-91 1-249-414-11	RES-CEIP RES-CHIP CARBON CARBON RES-CHIP CARBON RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP CARBON CARBON	3.3K 5 470 5 10 5 4.7K 5 330 5 150 5 47 47 5 560 5 13K 5	13 1/10W 13 1/10W 13 1/10W 13 1/4W 13 1/4W 13 1/4W 13 1/4W 13 1/4W 13 1/10W						
R7401 R7402 R7403 R7404 R7404 R7405 R7407 R7409 R7410 R7411 R7412 R7413 R7414	1-215-061-91 1-216-041-00 1-249-393-11 1-249-413-11 1-249-413-11 1-215-065-91 1-249-411-11 1-215-023-00 1-216-017-91 1-216-017-91 1-249-414-11 1-249-432-11	RES-CEIP RES-CHIP CARSON CARSON RES-CHIP CARSON RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP	3.3K 5 470 5 10 5 4.7K 5 330 5 150 5 47 47 5 560 5 13K 5	13 1/10W 13 1/10W 13 1/4W 13 1/4W 13 1/4W 13 1/4W 13 1/4W 13 1/10W 13 1/10W 13 1/10W 13 1/10W 13 1/10W 13 1/10W 13 1/10W 13 1/10W 13 1/10W 13 1/10W						
R7401 R7402 R7403 R7404 R7404 R7405 R7407 R7409 R7410 R7411 R7412 R7413 R7414 R7415	1-215-061-91 1-216-041-00 1-249-393-11 1-249-413-11 1-249-413-11 1-215-065-91 1-249-411-11 1-215-023-00 1-216-017-91 1-216-017-91 1-249-414-11 1-249-432-11 1-247-739-11	RES-CEIP RES-CHIP CARBON CARBON RES-CHIP CARBON RES-CHIP CARBON RES-CHIP RES-CHIP RES-CHIP CARBON CARBON CARBON CARBON CARBON	3.3K 5 470 5 10 5 4.7K 5 330 5 150 5 47 5 47 5 560 5 18K 5	13 1/10W 13 1/10W 13 1/4W 13 1/4W 13 1/4W 13 1/4W 13 1/4W 13 1/10W 13 1/10W 13 1/10W 13 1/10W 13 1/10W 13 1/10W 13 1/10W 13 1/4W 13 1/						
R7401 R7402 R7403 R7404 R7404 R7405 R7407 R7409 R7410 R7411 R7412 R7413 R7414 R7415 R7416	1-215-061-91 1-216-041-00 1-249-393-11 1-249-413-11 1-249-413-11 1-215-025-90 1-249-411-11 1-215-027-91 1-216-017-91 1-249-414-11 1-249-432-11 1-249-339-11	RES-CHIP RES-CHIP CARBON CARBON  RES-CHIP CARBON RES-CHIP RES-CHIP RES-CHIP RES-CHIP CARBON CARBON CARBON CARBON CARBON CARBON	3.3K 5 470 5 10 5 4.7K 5 330 5 150 5 47 47 5 560 13K 1 13K 1	13 1/10W 13 1/10W 13 1/4W 13 1/4W 13 1/4W 13 1/4W 13 1/4W 13 1/10W 13 1/10W 13 1/10W 13 1/10W 13 1/10W 13 1/10W 13 1/10W 13 1/10W 13 1/4W 13 1						

- 75 -

- 75 -

The components identified by shading and marked is lare oritical for safety. Replace only with the part numbers specified in the parts list.

REF.NO. PART NO

REF NO PARTINO DESCRIPTION REMARK

REMARK

### MISCELLANEOUS

A 1-17-05-11 series not got const.
A 1-17-05-12 sour day in series/series/

1-424-855-11 COIL, CHOKE 2910H

8-598-535-20 FRONTEND BTF-EF411 (KV-28FQ70B)

3-598-533-10 FRONTEND BTF-EC411 (KV-28FQ70E) 3-598-529-10 FRONTEND BTF-EU611 (KV-29FQ70U)

△ 1-453-378-21 TRANSFORMER ASSY, FLYBACK (NX-6020//Z214)

1-529-408-11 SPEAKER (4.2X24CM)

1-529-417-11 SPEAKER (3CM)

△ 8-451-521-31 DEFLECTION YOKE (Y28RVC3-L2)

1-419-363-11 COIL, NA ROTATION

△ 8-453-011-11 NECK ASSY, (NA299-M)

A 1-424-886-11 COIL, DEGAUSSING

A 1-251-946-21 CAP ASSY, HIGH VOLTAGE

A 8-735-099-05 PICTURE TUBE (W66LLX060X)

1-452-094-00 MAGNET, ROTATABLE DISK: 15MM

1-452-032-00 MAGNET, DISK: 10MM

### ACCESSORIES AND PACKAGING MATERIALS

\*4-029-168-01 BAG, PROTECTION

\*4-093-767-01 INDIVIDUAL CARTON

\*4-393-768-01 CUSHION OPPER

\*4-093-769-01 CUSEION LOWER

4-093-901-41 MANUAL, INSTRUCTION (KV-28FQ70B)

(GERMAN/ITALIAN/FRENCH/DUTCH)

4-093-901-51 MANUAL, INSTRUCTION (KV-28FQ70B) (ENGLISH)

4-093-901-11 MANUAL, INSTRUCTION (KV-28FQ70E)

(GERMAN/TURKISH/GREEK)

4-093-901-21 MANUAL, INSTRUCTION (KV-28FQ70E) (ITALIAN)

4-093-901-31 MANUAL, INSTRUCTION (KV-28FQ70E)

'NORWEGIAN/PORTUGUESE/SWEDISH/FINNISH/

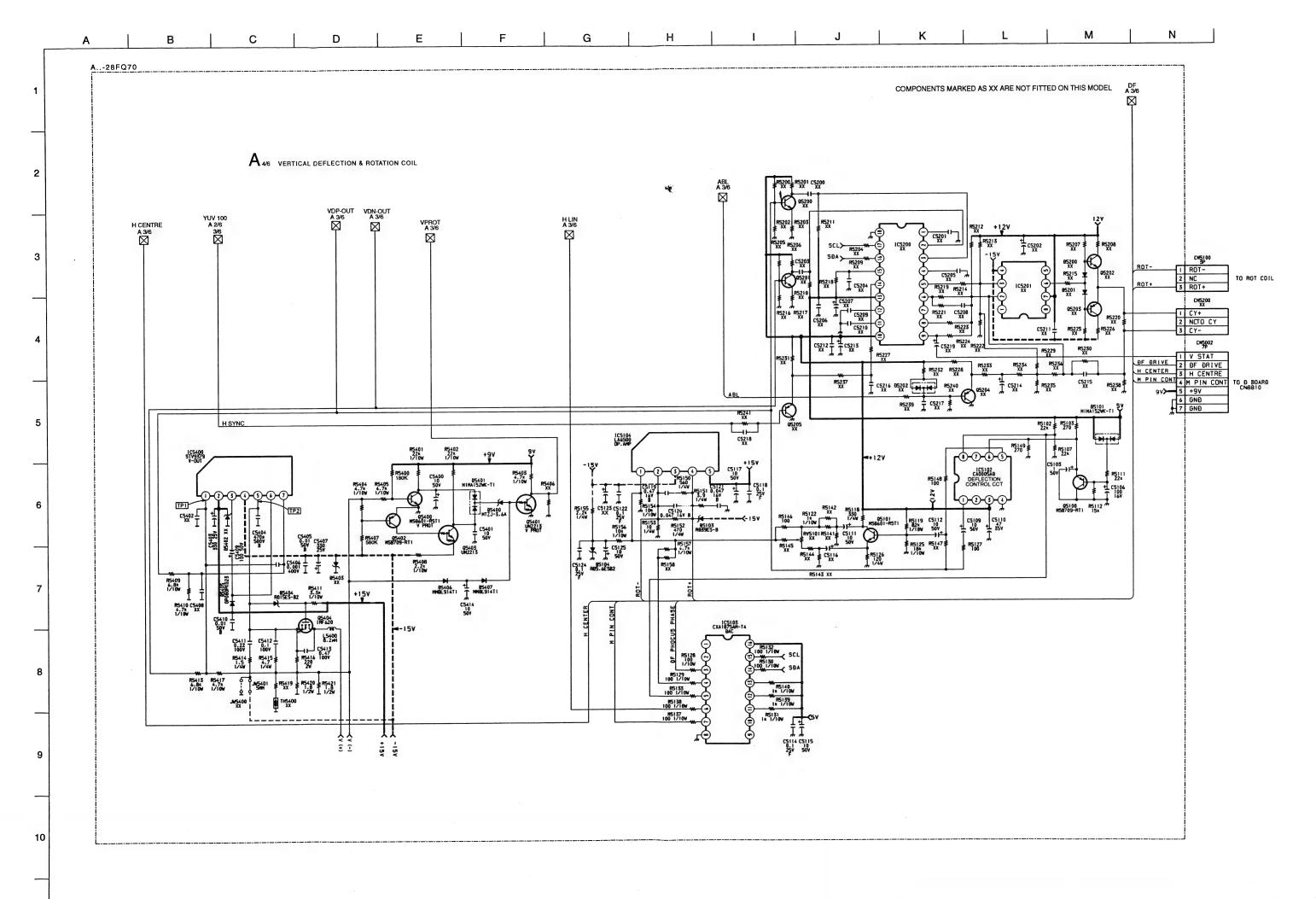
DANISH/SPANISH)

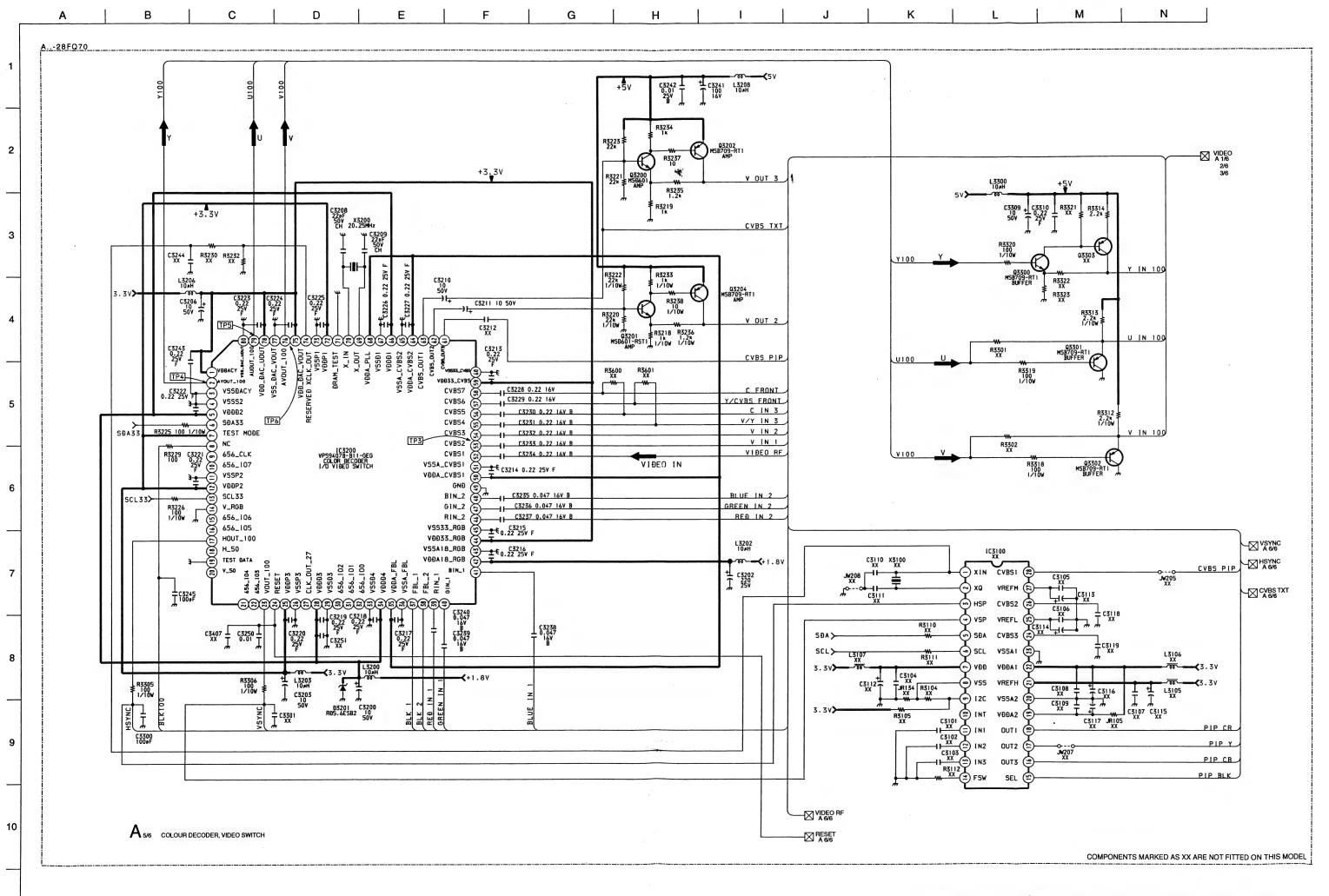
4-093-901-61 MANUAL, INSTRUCTION (KV-28FQ70U) (ENGLISH)

#### REMOTE COMMANDER

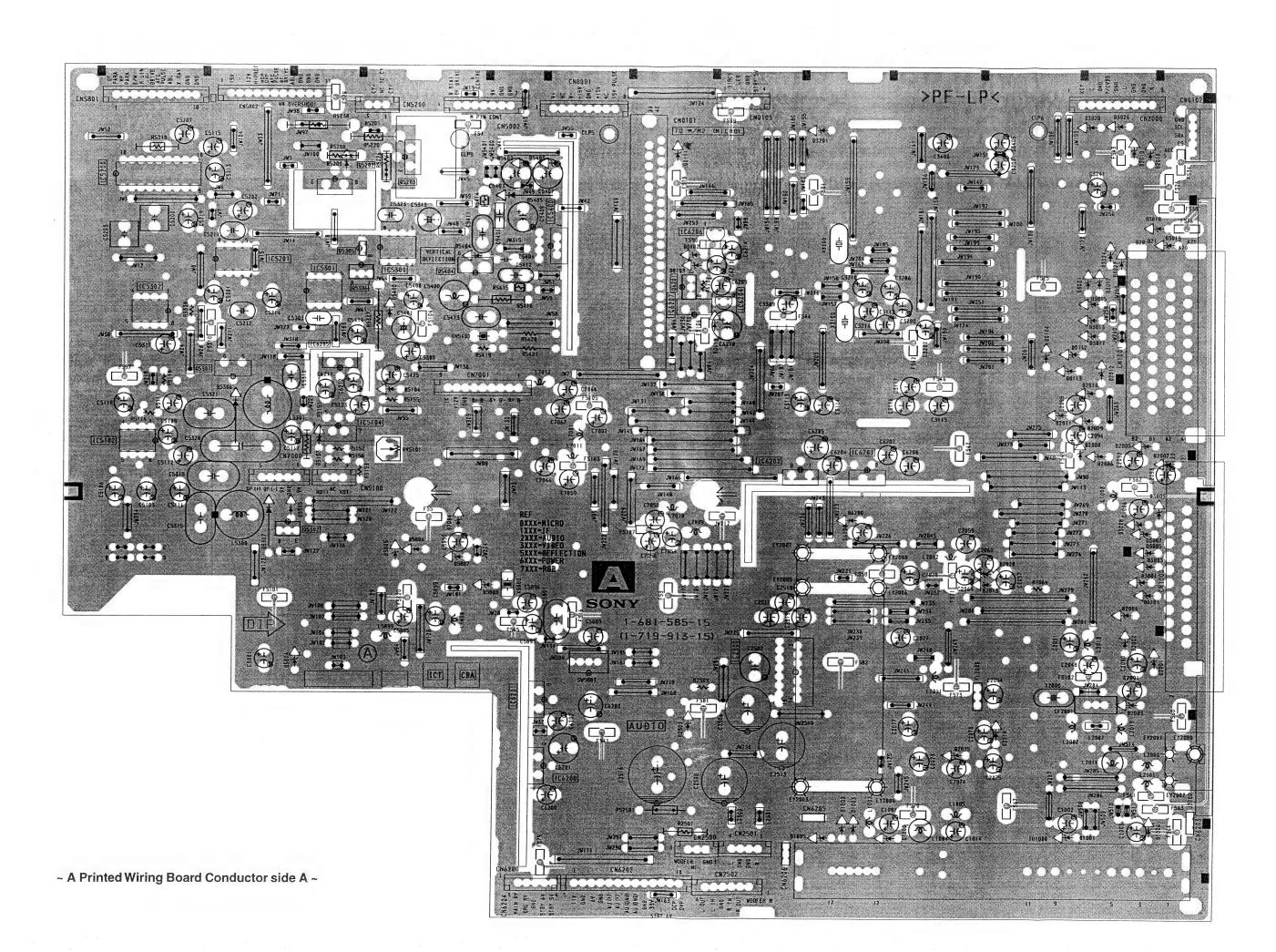
1-477-259-13 REMOTE COMMANDER (RM-938)

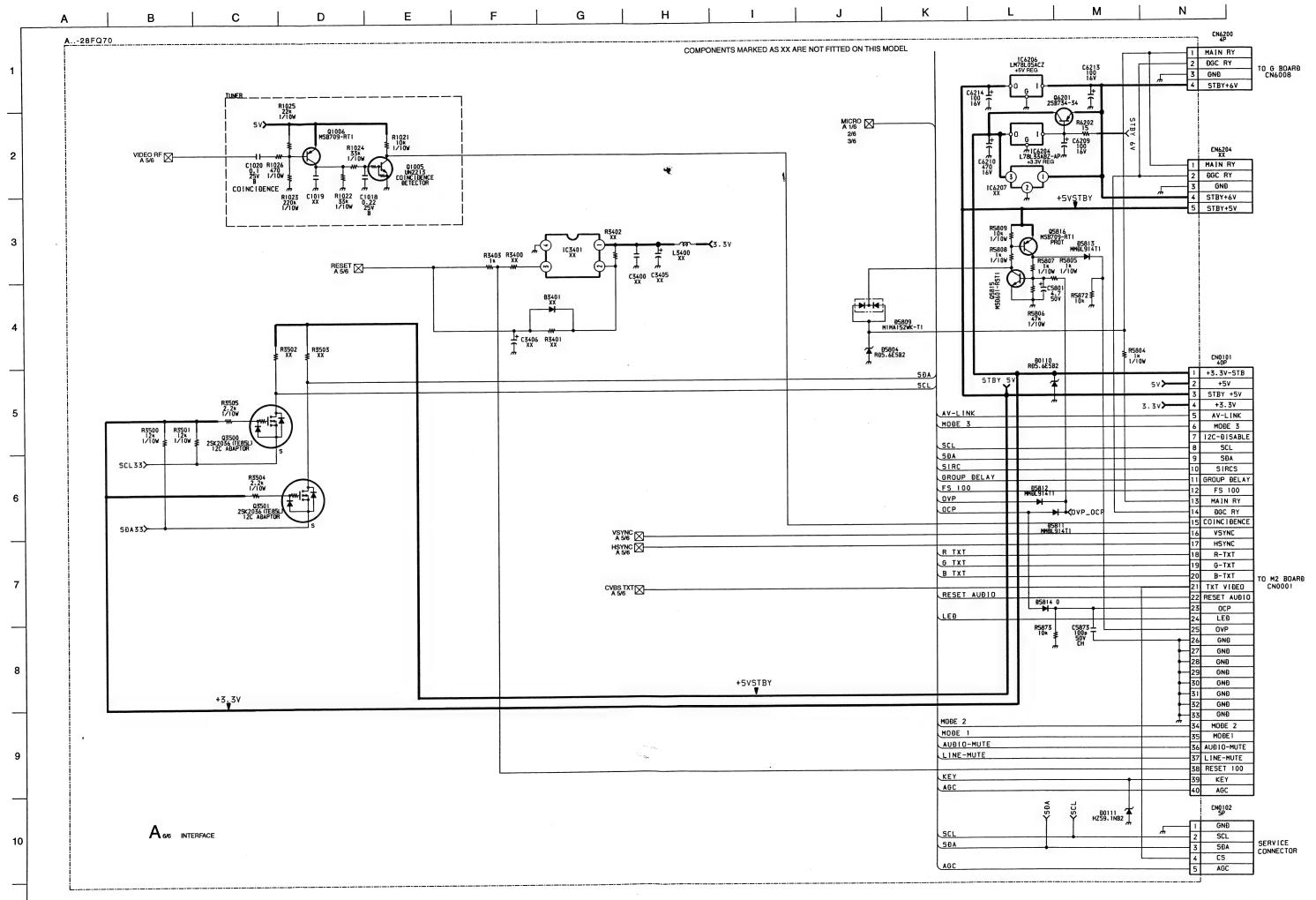
. 77 -



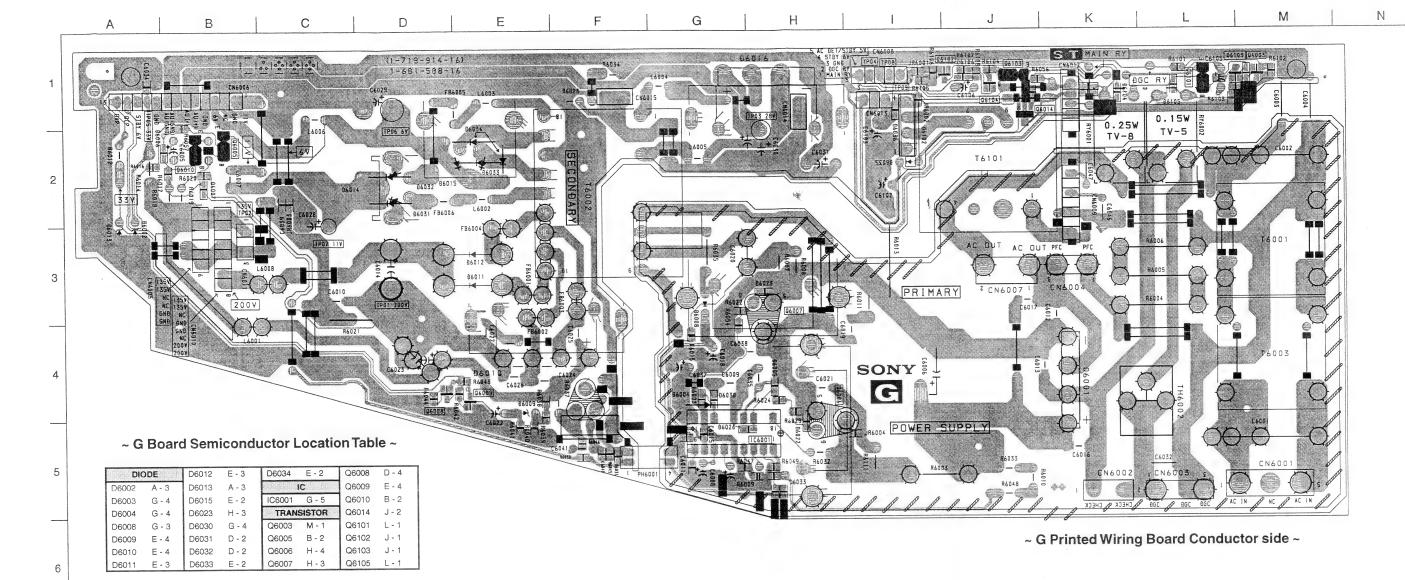


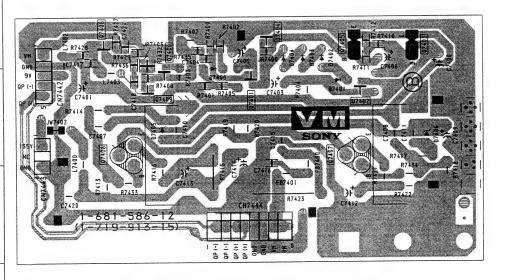
A B C D E F G H I I J K I L I M I N



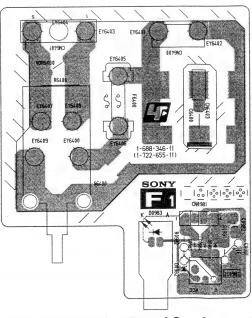


~ A Printed Wiring Board Conductor side B ~

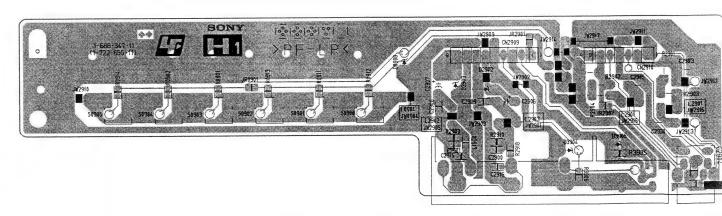




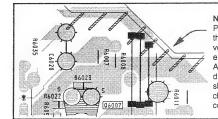
~ VM Printed Wiring Board Conductor side ~



~ F1 Printed Wiring Board Conductor side ~

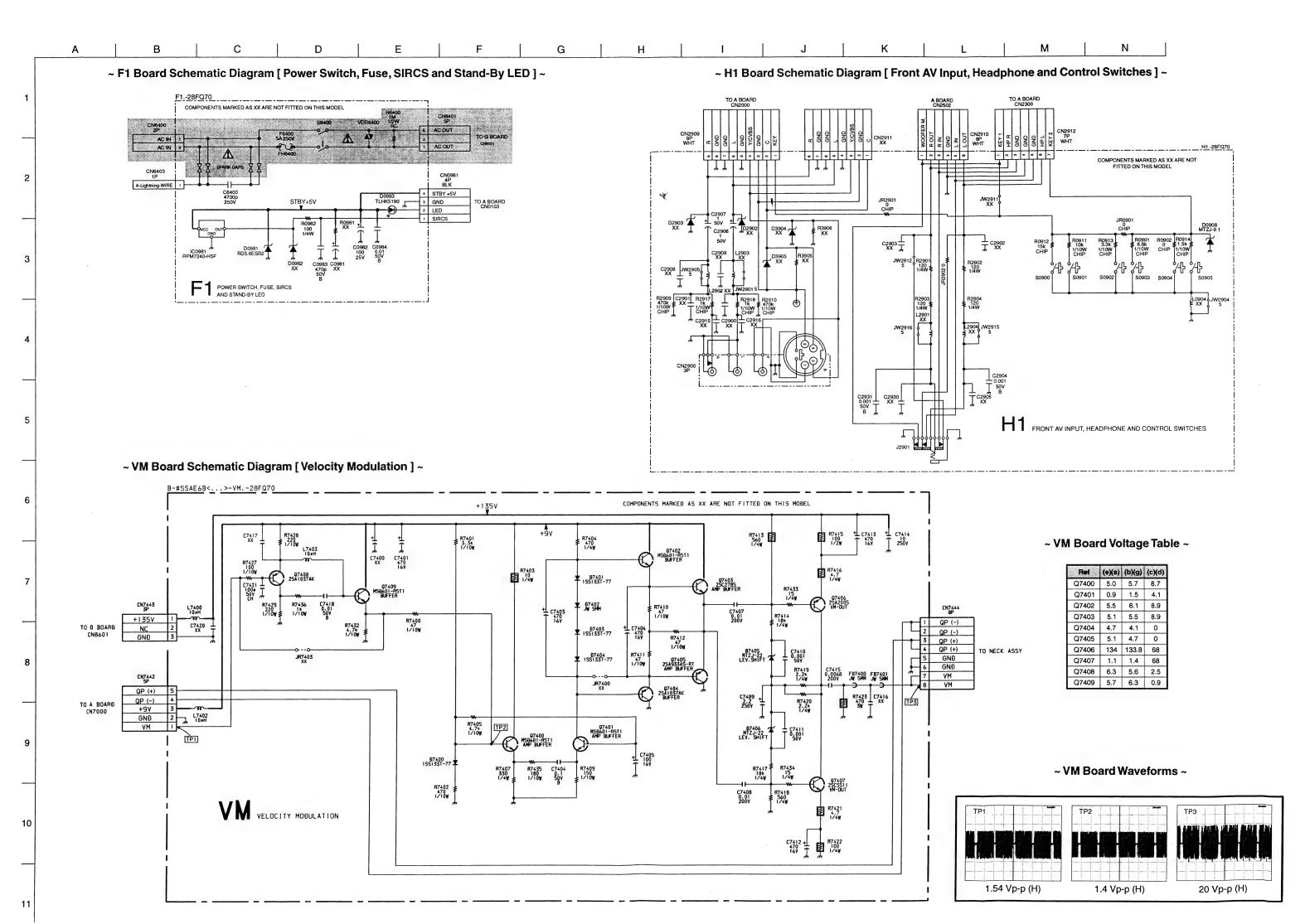


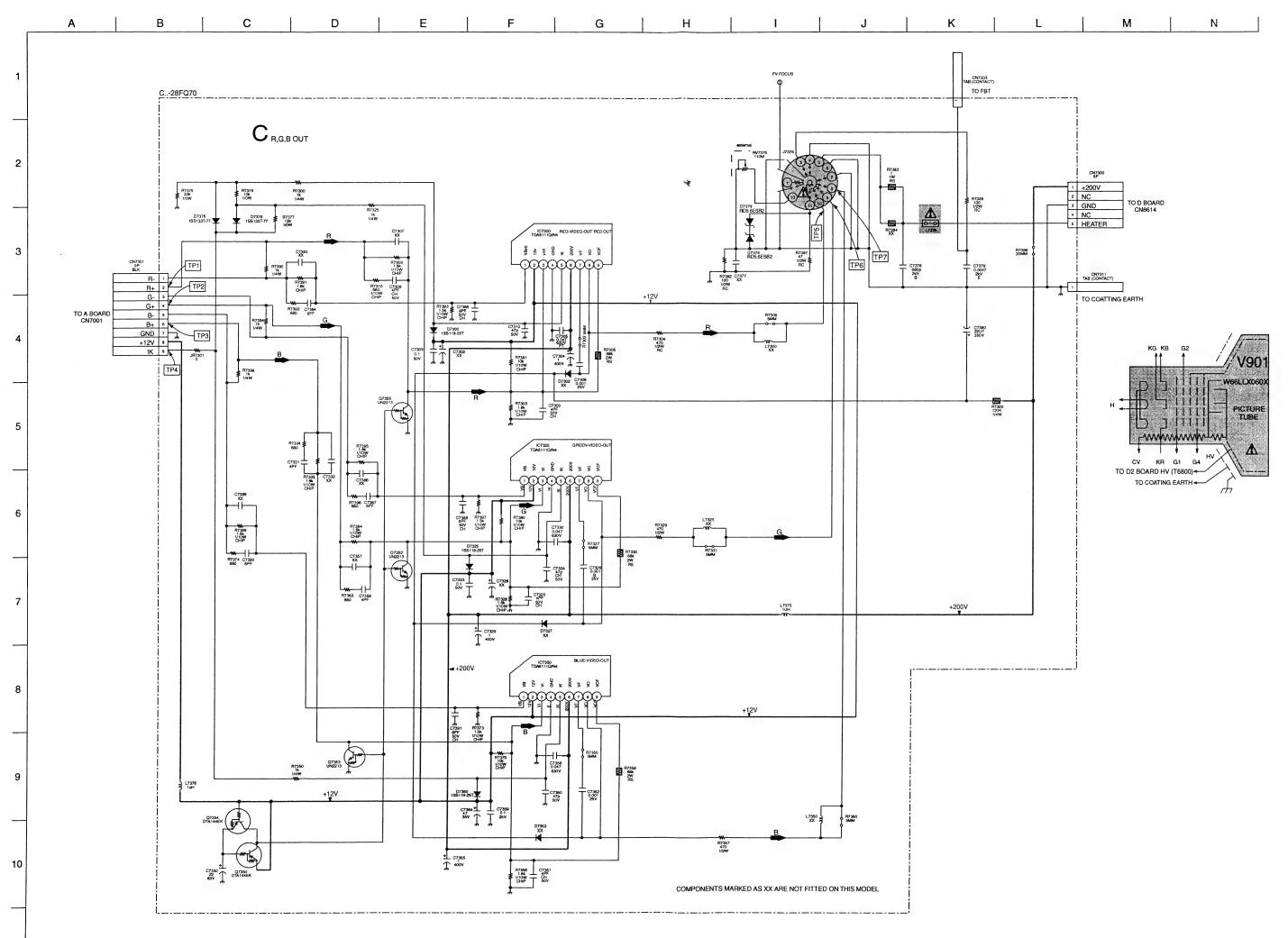
~ H1 Printed Wiring Board Conductor side ~

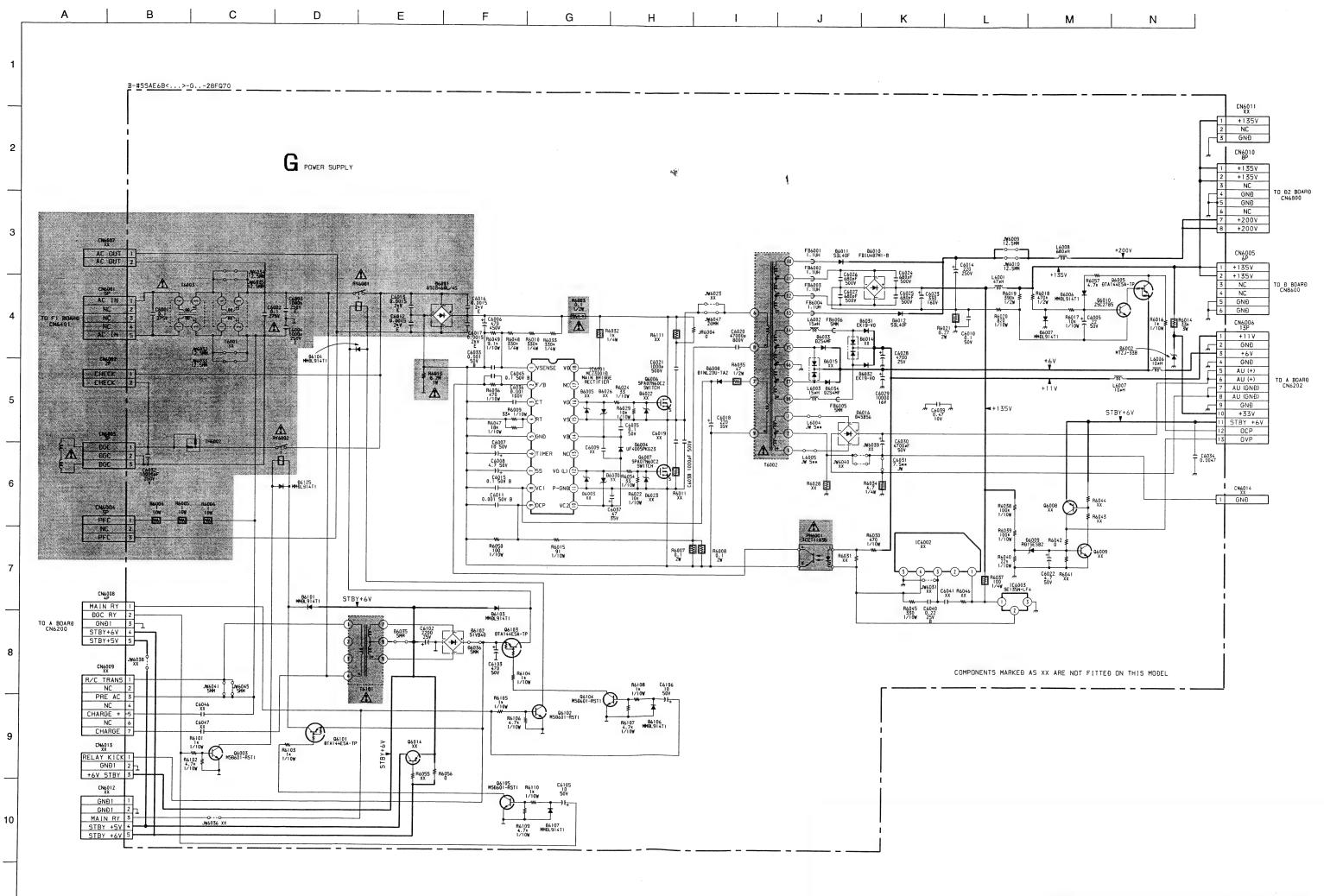


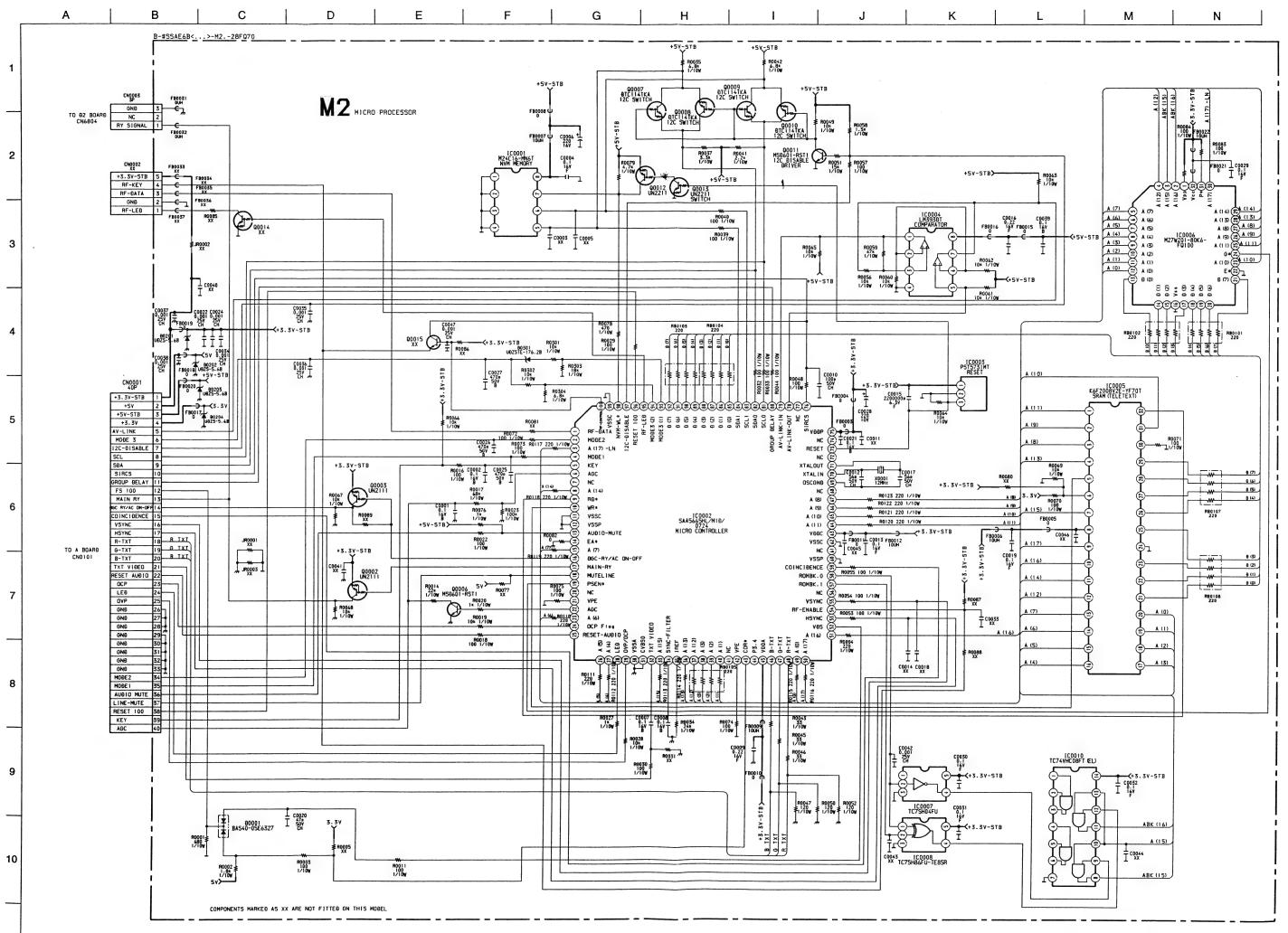
Note:

Portions of the circuit contained within the marked areas as shown have high voltages present. Use care to prevent electric shock during inspection or repair. An Isolation Transformer must be used during any Service work to avoid possible shock hazard due to live chassis. The chassis of this receiver is directly connected to the power line.

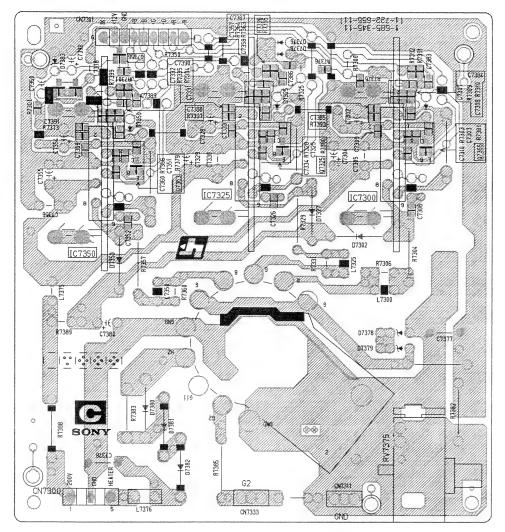




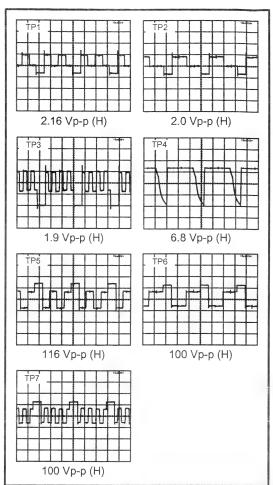




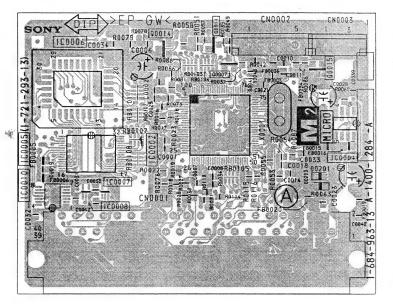
~ C Printed Wiring Board Conductor side ~



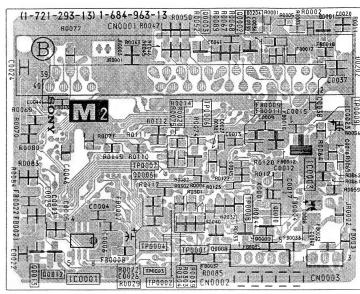
~ C Board Waveforms ~



~ M2 Printed Wiring Board Conductor side A ~



~ M2 Printed Wiring Board Conductor side B ~



~ D2 Printed Wiring Board Conductor side ~

SONY D 2

Ref	(e)	(b)	(c)		
Q7350	12	11.98	0		
Q7352	0	0	3.8		
Q7353	0	0	3.8		
Q7354	11.98	12	0		
Q7355	0	0	3.8		

~ C Board Semiconductor Voltage Table ~

~ C Board IC Voltage Table ~

IC Voltage Table						
Ref No	Pin No	Voltage (V)				
	1	3.9				
	3	3.8 7.5				
	5					
IC7300	6	200				
	7	140				
	8	153				
	9	140				
	1	3.9				
	3	3.8				
	5	7.7				
IC7325	6	200 140 153				
	7					
	8					
	9	140				
	1	3.9				
	3	3.8				
	5	7.5				
IC7350	6	200				
	7	139				
	8	148				
	9	138				

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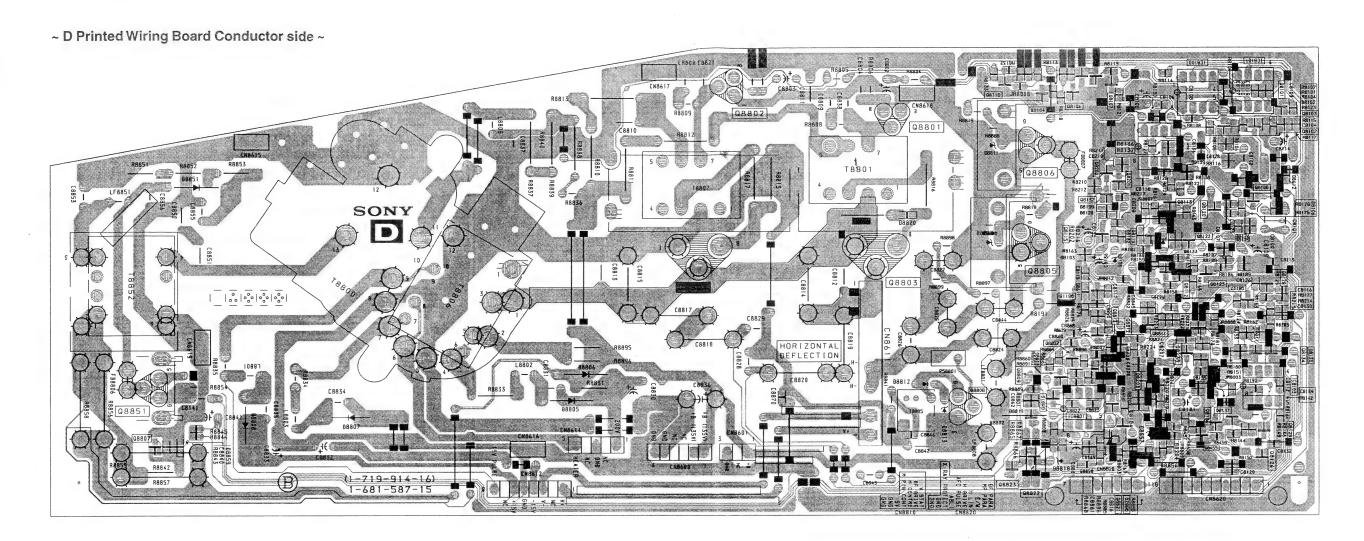
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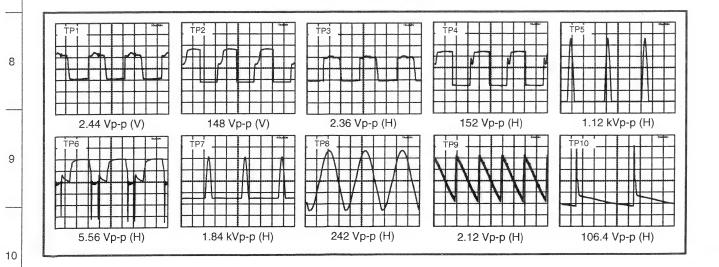
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A | B | C | D | E | F | G | H | I | J | K | L | M | N



## ~ D Board Waveforms ~

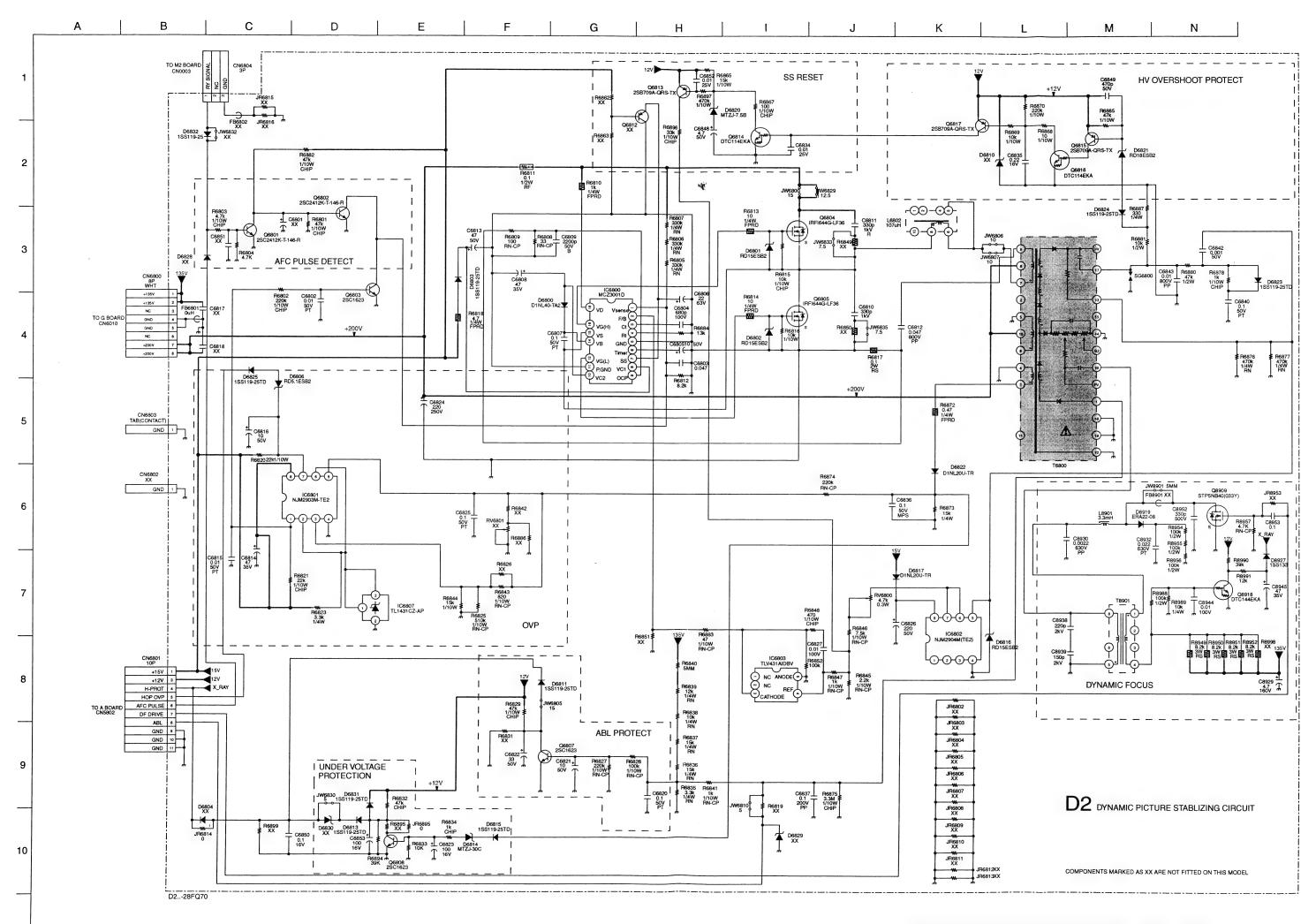


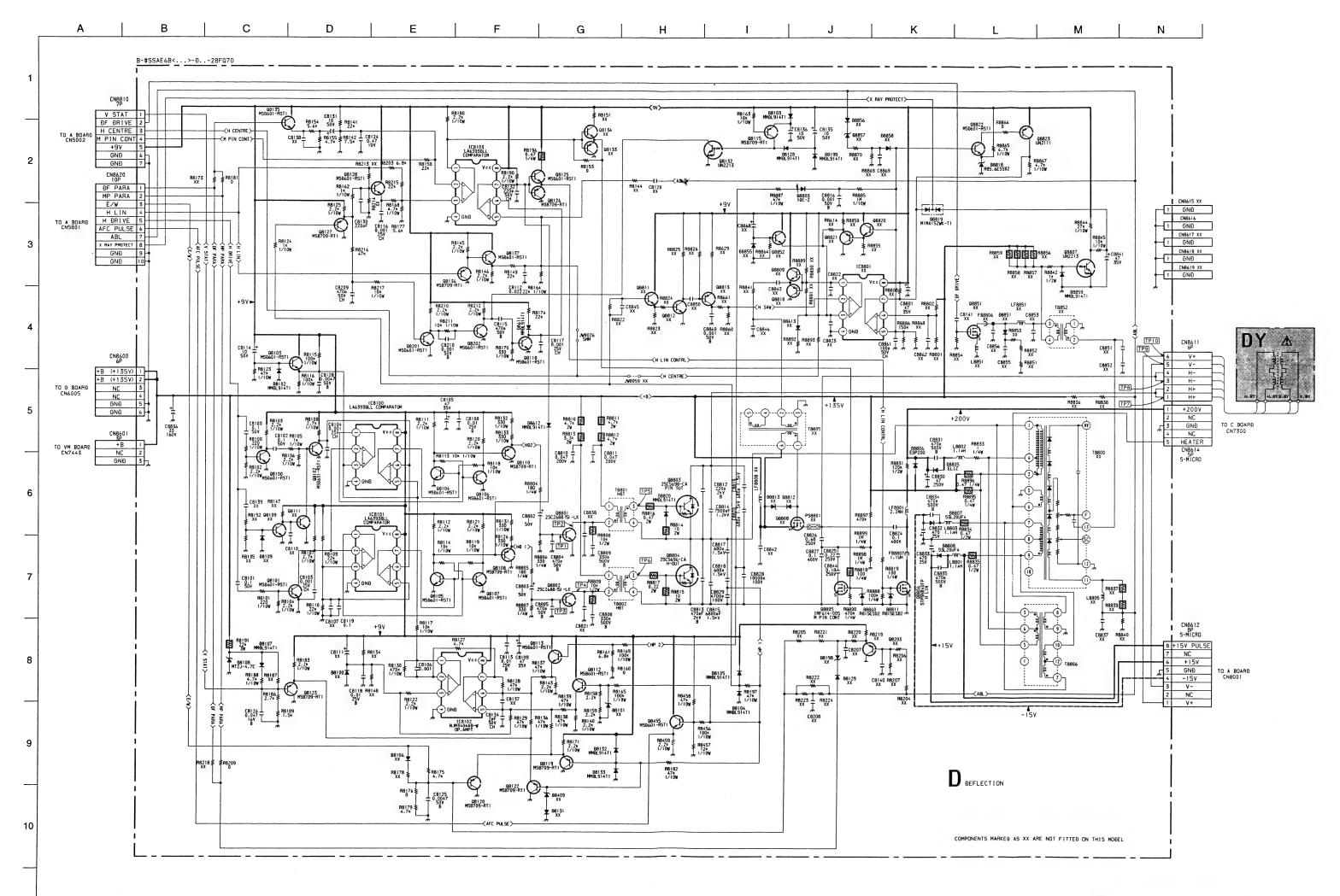
# ~ D Board IC Voltage Table ~

Ref No	Pin No	Voltage (V)			
	1	0.3			
	2	4.3			
IC8100	3	4.1			
100100	5	4.1			
	6	3.0			
	7	0.4			
	1	0.3			
	2	4.3			
IC8101	3	4.4			
100101	5	4.4			
	6	3.0			
	7	0.4			
	1	4.1			
	2	0.4			
IC8102	3	0.4			
100102	5	0.4			
	6	0.4			
	7	0.4			
	1	2.5			
	2	2.1			
IC8103	3	1.7			
100103	5	1.6			
	6	1.0			
	7	1.1			

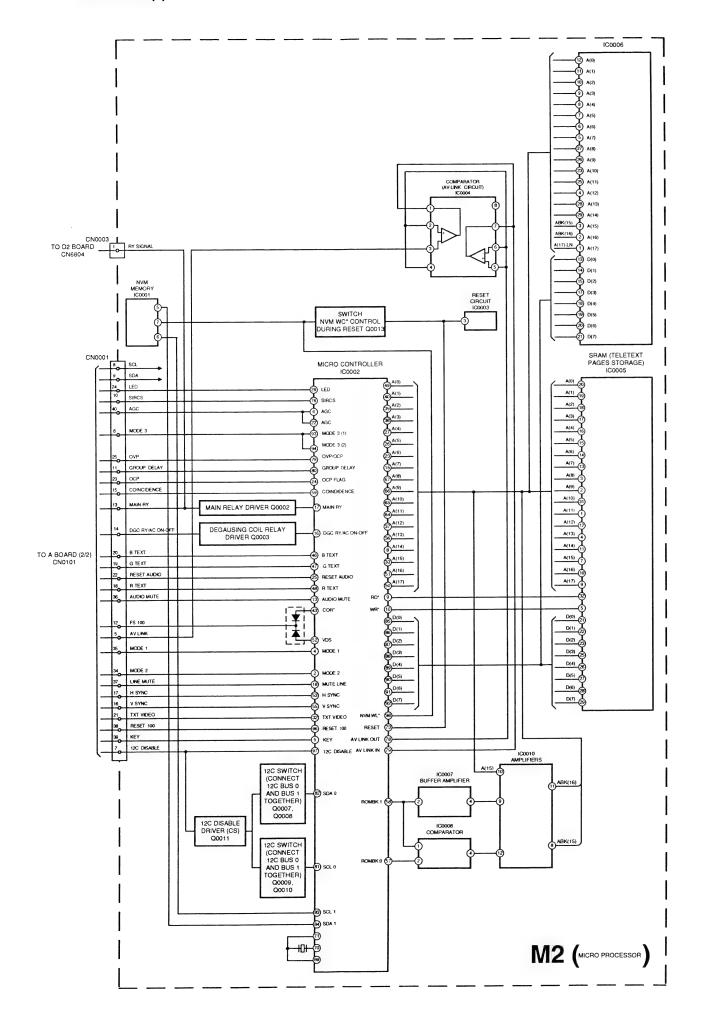
## ~ D Board Semiconductor Voltage Table ~

Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)
Q8100	0	0.6	3.6	Q8110	2.4	3.1	0	Q8128	3.4	1.5	8.9	Q8801	0	0.4	64.7
Q8101	0	0.6	4.3	Q8113	0.3	0.2	8.9	Q8132	0	0	3.4	Q8802	0	0.4	73.2
Q8102	0	0.3	4.3	Q8115	8.6	8.9	0	Q8135	2.6	3.2	8.9	Q8807	0	6.3	0
Q8103	4.0	0	8.9	Q8118	0	0	5.0	Q8136	2.5	1.8	0	Q8818	0	0	5.0
Q8104	0	0.4	3.1	Q8119	0.7	1.4	0	Q8137	1.8	2.5	8.9	Q8822	5.5	4.9	0
Q8105	0	0.4	3.2	Q8120	0.7	2.3	0	Q8201	0	0.6	3.9	Q8823	8.9	8.5	0
Q8106	0	0.3	4.3	Q8122	0.5	1.4	0	Q8202	0	0.8	3.4	Q8805	0	2.5	33
Q8107	0	0.3	4.2	Q8123	0.5	1.4	0	Q8203	1.4	0.9	0	Q8806	0	1.2	135
Q8108	2.4	3.2	0	Q8127	1.4	1.5	0	Q8455	1.1	1.7	8.9	Q8851	0	5.4	81.5

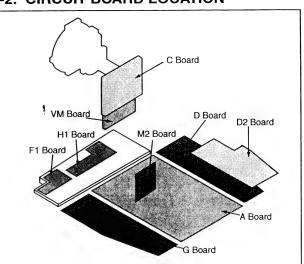




### 5-1. BLOCK DIAGRAMS (4)



#### 5-2. CIRCUIT BOARD LOCATION



# 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

#### Note

- All capacitors are in µF unless otherwise noted.
- pF: µµF 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5mm Electrical power rating: 1/4W

- Chip resistors are 1/10W
- All resistors are in ohms.

k = 1000 ohms, M = 1000,000 ohms

: nonflammable resistor.

• : fusible resistor.

: internal component.

: panel designation or adjustment for repair.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital mutimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerences.

: B + bus.

• = = : B - bus.

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್ಷಣ್ಣನ್ಯೆ : RF signal path.

earth - ground.

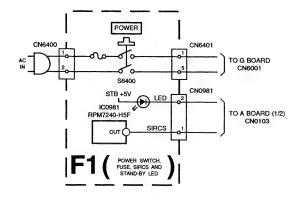
: earth - chassis.

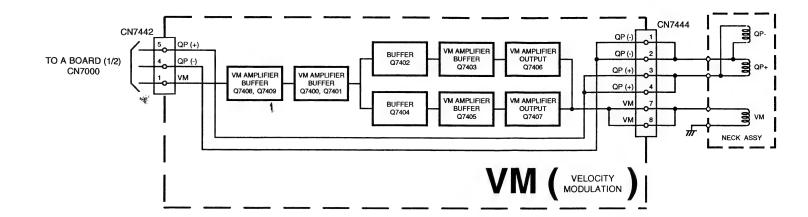
## Reference Information

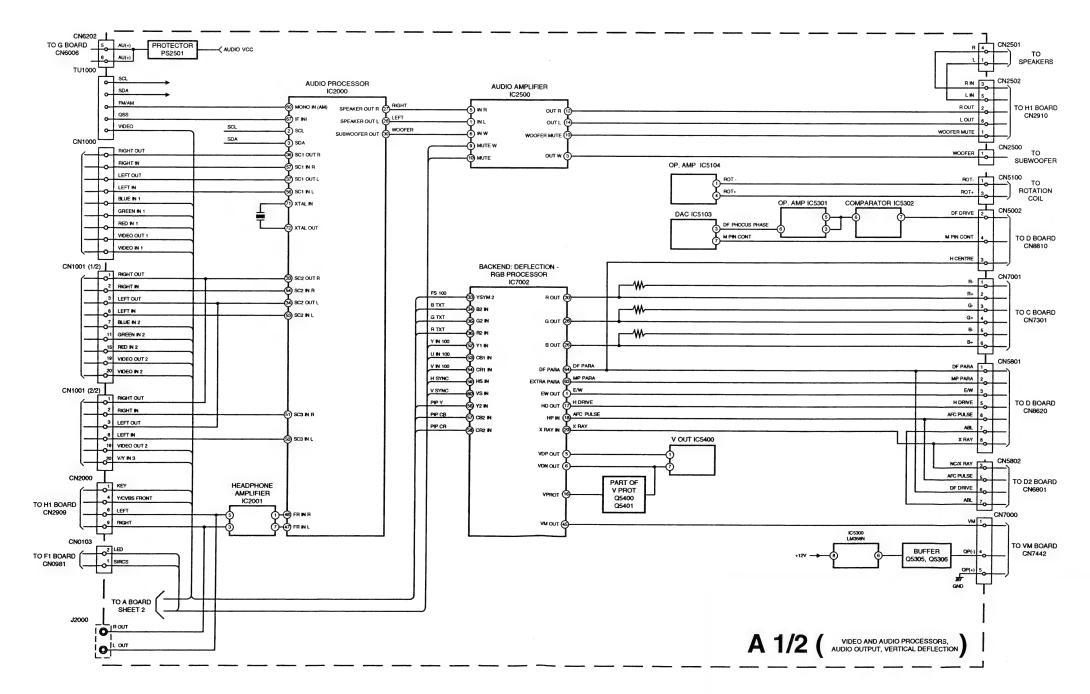
RESISTOR	RN	: METAL FILM						
	RC	: SOLID						
	FPRD	: NON FLAMMABLE CARBON						
	FUSE	: NON FLAMMABLE FUSIBLE						
	RS	: NON FLAMMABLE METAL OXIDE						
	RB	: NON FLAMMABLE CEMENT						
	RW	: NON FLAMMABLE WIREWOUND						
	<b>※</b>	: ADJUSTMENT RESISTOR						
COIL	LF-8L	: MICRO INDUCTOR						
CAPACITOR	TA	: TANTALUM						
	PS	: STYROL						
	PP	: POLYPROPYLENE						
	PT	: MYLAR						
	MPS	: METALIZED POLYESTER						
	MPP	: METALIZED POLYPROPYLENE						
	ALB	: BIPOLAR						
	ALT	: HIGH TEMPERATURE						
	ALR	: HIGH RIPPLE						

Note: The components identified by shading and marked ∆ are critical for safety. Replace only with the part numbers specified in the parts list.

Note: Les composants identifiés par une trame et par une marque ∆ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié. specified.







## 5-1. BLOCK DIAGRAMS (2)

